

1/5332  
**FIGURE 1**

CTGCGGCAAAGAACCGGGCTGTGTCCAAAGTGTCTCTGGAAGTTGTAGTTCCTGTATTGGTGAGGCAAGGAGGA  
GGCGGAGTGACTCGGCGGCCATTAGCTGTGTGTAGTTGCCCGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTG  
TTCGGTGAAATCAGCCGTAGCCATGAGTTTCTGCCGGGGCTAGCCCTAGAGTACGGAGCAGGCGGACTTTTCGG  
TTCCCCGCCCCGCCAGGTGGCGGGGCCTACTAGGCCTCCGGGCATCCCCGGTCTCAAGTAGGCCTCATCTGCCGG  
CAAGGGCGCCCCGAAACGCGGGAGGCGCCATGTCGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGA  
GGCTGAGCCCGAGCCGGAGGAAGAGGAGGCGGTGGCTCCTACATCTGGGCCCCGCTTTAGGGGGCTTGTTGCTTC  
TCTCCCTGCGCCCAAGGGTCCGGCCTTGCTGCCTCCGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCCGCT  
GTTGCTTCCCCACCCACCGAGACCCAGGCTTCAGCCTCCTCCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCC  
CCACCTCCAGGCGTGAGCCCGGCTGAAGCGGCGGGAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCG  
AGGCCCTGGCCTCAATCTGCCCCCTCAATTGGCGGTGCCGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAG  
GAAAGAGCCCGTGAAGATCGCGGCGCCGGAGTTGCATAAGGGAGATTAGATTCTGAGGAAGATGAACCCACAAA  
GAAGAAACTATCCTTCAGGGATCCAGTGAGGGGACTGGTTTGTCTGCCTTGCTTCCCAACCTAAAAACCTGAC  
TGTGAAAGAGACTAACAGGTGTCTCCTGCCCATGCCTTCTCCCGCAAACCTCGGATGGCTCCCCTGATACTAA  
GCCCTCCAGACTGGCTTCTAAGACCAAGACTTCTCTCTTGCCCCCTGTTGTGGGGCACCACAACCACCACTCCGTC  
GCCCTCTGCTATCAAGGCTGTCTGCCAAGAGTGTGCCCTGCAGGTGACAAAGCAGATCACGCAGGAAGAAGACGA  
CAGTGATGAGGAAGTAGCCCCGAAAACTTTTTCTCCCTCCCTGAAAAGGCTGAGCCACCTGGAGTTGAGCCATA  
CCCTTACCCCATCCCCACTGTCCCTGAAGAGCTGCCTCCAGGCACGGAACCAGAGCCGGCTTTCCAGGACGATGC  
AGCCAATGCCCCCCTTGAATTCAAGATGGCAGCAGGTTCAAGTGGGGCCCCCTTGGATGCCTAAGCCTGGGGACGA  
CTACAGCTACAATCAGTTTTCCACATATGGCGATGCCAATGCCGCTGGTGCTTATTATCAGGATTATTACAGTGG  
TGGCTACTATCCTGCACAGGACCCGGCCCTGGTCCCCCCCCAGGAAATTGCCCCAGATGCCTCCTTCATCGATGA  
CGAAGCATTTAAGCGGCTGCAGGGCAAGAGGAACCGAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGA  
TGACCAGCTCAGTGGGGCCAGCAATGGATGACTAAGTCATTGACAGAAGAGAAAACCATGAAGTCATTACGCAA  
AAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGCGGAAACACCAGATCACATATCTTATTCATCAGGCCAAGGA  
GCGGGAGCTGGAAGTGAAGAACACCTGGTCAGAGAACAAGCTCAGCCGCCGTCAGACCCAAGCCAAATATGGATT  
CTAGGGCTCTGGAAGTGAATGCTCCCAGGATCTCCTGCCAGCCAGCTGGCCTGGCCCCCAGCTTCACCTCTGGG  
ACCCAGCTGCTCTAAGCCCAGGATCTCTTCCCCAAGGACCCAGCCCTCGCCTCTGCGAGAATGAACATATTTG  
ATAGATTTTTCTTAACAAGTTAGAAAAATTCAGCTCCTTTCTGTCTGGAGCTAGCAAAGACTTGTGTGATGCCTC  
CGAAGGGGCTCTGAGTTCTGGGGTGGGAGTTTTGCTCTCTGTGAGGTGTGATAAAATGTTGAACCCTCCCCACCA  
CCACTTTTTTTTTTTTAAACCAGGGATGTCTGTTGAAATAAAACATTACGTCTGAC

GAGGAGGAGTGGGGACCGGGCGGGGGGTGGAGGAAAGAGGCTCGCGCAGAGGAGGAGCAATTGAATTTCAAACA  
CAAACAACCTGCACGAGCGCGCACCCACCGCGCCGGAGCCTTGCCCGATCCGCGCCCGCCCGTCCGTGCGGCGC  
GCGGGCGGAGACGCCGTGGCCGCGCCGGAGCTCGGGCCGGGGGCCACCATCGAGGCGGGGGCCGCGCGAGGGCCG  
GAGCGGAGCGGCGCCGCCACCGCCGCACGCGCAAACCTTGGGCTCGCGCTTCCCGGCCCGGCGCGGAGCCCCGGGG  
GCCCCGAGCCCCGCCATGTCGCGATCCAACCGGCAGAAGGAGTACAAATGCGGGGACCTGGTGTTCGCCAAGATG  
AAGGGCTACCCACACTGGCCGGCCCCGATTGACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAACAATAC  
CAAGTCTTTTTTTTTCGGGACCCACGAGACGGCATTCTTGGGCCCAAAGACCTCTTCCCTTACGAGGAATCCAAG  
GAGAAGTTTGGCAAGCCCAACAAGAGGAAAGGGTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCTTACTGTC  
AAGGCTTCCGGCTATCAGTCTCTCCAGAAAAAGAGCTGTGTGGAAGAGCCTGAACCAGAGCCCCGAAGCTGCAGAG  
GGTGACGGTGATAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCC  
AAGGAGAAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCTTAAACGTCCCAAG  
GAGGCAGAAAACCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGGAGGTTGAGAGGCCCTTCTCTATGGAGGTG  
GAAAAGAATAGCACCCCTCTGAGCCCGGCTCTGGCCGGGGGCCCTCCCAAGAGGAAGAAGAGGAGGAGGATGAA  
GAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCCAGGCATCAGAGATCATGAGAGCCTGTAGCCACCAATGTTT  
CAAGAGGAGCCCCACCTGTCTCTGCTGCTGCTGCTGGGTGCTACTGGGGAACTGGCCATGGCCTGCAAACTGGG  
AACCCTTTCCACCCCAACCTGCTCTCTCTTCTACTCACTTTTCCCACTCCAAGCCCAGCCCATGGAGATTGA  
CTGGATGGGGCAGGCCACCTGGCTCTCACTCTAGGTCCCCATACTCCTATGATCTGAGTCAGAGCCATGTCTT  
CTCCCTGGAATGAGTTGAGGCCACTTGTCTCTTCCGCTTGGGAGGGGCAATCCTCAAATGCGGGGTGGGGGCAG  
CACAGGAGGGCGGCCTCCTTCTGAGCTCCTGTCCCCGTACACCTATTATCCAGCTGCCTAGATTACAGGGAAA  
GTGGGACAGCTTGTAGGGGAGGGGCTCCTTTCCATAAATCCTTGATGATTGACAACACCCATTTTCTTTTGGC  
GACCCCAAGAGTTTTGGGAGTTGTAGTTAATCATCAAGAGAATTTGGGGCTTCCAAGTTGTTGCGGGCCAAGGACC  
TGAGACCTGAAGGGTTGACTTTACCCATTTGGGTGGGAGTGTTGAGCATCTGTCCCCCTTTAGATCTCTGAAGCC  
ACAAATAGGATGCTTGGGAAGACTCCTAGCTGTCTTTTCTCTCCACACAGTGCTCAAGGCCAGCTTATAGTC  
ATATATATCACCCAGACATAAAGGAAAAGACACATTTTTTAGGAAATGTTTTTAATAAAAGAAAATTACAAAAA  
AAATTTTAAAGACCCCTAACCCCTTTGTGTGCTCTCCATTCTGCTCCTTCCCCATCGTTGCCCCCATTTCTGAGGT  
GCACTGGGAGGCTCCCTTCTATTTGGGGCTTGATGACTTTCTTTTGTAGCTGGGGCTTTGATGTTCTCTCCAG  
TGTCATTTCTCATCCACATAACCTGACCTGGCCCCCTCAGTGTTGTCACCAGATCTGATTGTAACCCACTGAGA  
GGACAGAGAGAAATAAGTGCCCTCTCCACCCTCTTCTACTGGTCTCTCTATGCCTCTCTACAGTCTCGTCTCT  
TTTACCCTGGCCCCCTCTCCCTTGGGCTCTGATGAAAAATTGCTGACTGTAGCTTTGGAAGTTAGCTCTGAGAAC  
CGTAGATGATTTAGTTCTAGGAAAATAAAACCCGTTGATTACT



3/5332  
**FIGURE 3**

GCGGGGAGGGGACGCTGAGGGCCCATGTGCTGAAAATCCGAAGTGCCGCGGAAAGTGGAGAGCTGACAAGGAAG  
GTTTCGAGCGTTTTGCTGGCAAAGGGATTTCTTACAACCTCCAGGCATGCGTCTTTCTGCCCTGCTGGCCTTGGC  
ATCCAAGGTCACTCTGCCCCCCCATTACCGCTATGGGATGAGCCCCCAGGCTCTGTTGCAGACAAGAGGAAGAA  
CCCCCATGGATCAGGCGGCGCCAGTGGTTGTGGAACCCATCTCTGATGAAGACTGGTATCTGTTCTGTGGGGA  
CACGGTGGAGATCCTAGAAGGCAAGGATGCCGGGAAGCAGGGCAAAGTGGTTCAAGTTATCCGGCAGCGAAACTG  
GGTGGTCGTGGGAGGGCTGAACACACATTACCGCTACATTGGCAAGACCATGGATTACCGGGGAACCATGATCCC  
TAGTGAAGCCCCCTTGCTCCACCGCCAGGTCAAACCTTGTGGATCCTATGGACAGGAAACCCACTGAGATCGAGTG  
GAGATTTACTGAAGCAGGAGAGCGGGTACGAGTCTCCACACGATCAGGGAGAATTATCCCTAAACCCGAATTTCC  
CAGAGCTGATGGCATCGTCCCTGAAACGTGGATTGATGGCCCCAAAGACACATCAGTGGAAGATGCTTTAGAAAG  
AACCTATGTGCCCTGTCTAAAGACACTGCAGGAGGAGGTGATGGAGGCCATGGGGATCAAGGAGACCCGAAATA  
CAAGAAGGTCTATTGGTATTGAGCCTGGGGCAGAGCAGCTCCTCCCCAACTTCTGTCCCAGCCTTGAAGGCTGAG  
GCACTTCTTTTTTCAGATGCCAATAAAGAGCACTTTATGAGTC

4/5332  
**FIGURE 4**

AAGGCAGGCGCGCGGGTTAGAACGCGCCAGAGGTCGGCGCGCGCACACCCGCACCGCCCCGACCCCAGGTAGTGA  
GGCCAGTGATTCCGAGTGTGTGAGGAGAGGAGTGTACGGCAAGGGGCGGGAAGTGGAACTTGGCCCCGCTCGTTG  
TGAGCTGAGCTCAGCGGCACGCTTTTGTGGCGTCACTGCACTGTTACCCCGCCCTACGTGTCTCTGACGCTGACA  
CCTTCTCACTGTGAAACGTCGCGACCTGTGACGTCTGGGGGGCGCCTCAAATCTTCCACTCCAGCATCGGATCCC  
GGAAAGGCAGCGTCGGGAGACTGGACCCAAAACCTCTTCTGTTCTGCCTGCAGAGTTGAGCCCCGTCCGGGTCCTG  
GACCCGCGTAGTACTGACCCTGGATCCCTGTTCACTGCGTTCTCGCTCCCCGCGCTCCCTGCTGGACCCCGGGAT  
GCCGGGCATCTCCGCCCCGAGGCTCTCTCATGAGGGGAGGAAGCAGCTAGCTGTTAACCTCACCCGTGTCTGGC  
ACTCTACCGTTCCATCTTGGATGCCTACATCATCGAATTTTTTCACAGACAACCTATGGGACACACTCCCTTGCTC  
ATGGCAGGAAGCATTGGATGGACTGAAACCACCACAGCTGGCCACAATGCTGCTGGGGATGCCTGGGGGAAGGGGA  
GGTCGTCAGGTACAGGTCACTGTGGCCACTCACCCCTGCTGGCCCTGAAGTCCACGGCGTGTGCCCTGGCCCTTAC  
CCGGATGCCTGGCTTTTACAGACCCCTCAGAATTCCTGGAGAACCCAGCCAGAGCTCCCGACTAACAGCTCCATT  
CCGGAACATGTACAGGCCCAAGAAGCAGCATGAGATCCGGAGGCTGGGAGAGTTGGTGAAGAAGCTGAGTGATTT  
CACAGGCTGCACCCAGGTTGTAGACGTGGGCTCAGGCCAGGGCCATCTCTCCGCTTCATGGCTCTTGGCCTGGG  
GTTGATGGTGAAGAGCATCGAAGGGGATCAGAGACTGGTGGAGAGAGCCAGCGCCTGGACCAGGAGCTTCTGCA  
GGCTCTGGAGAAAGAGGAGAAGAGGAACCCGCAGGTGGTCCAAACCAGCCCTCGTCACTCCCCACACCACGTGGT  
TAGGTGGGTAGACCCACAGCCCTGTGTGAGGAGCTTCTGCTTCCACTGGAGAACCCGTGTACAGGCAGGGCCCG  
CTTGCTGCTCACAGGCCTCCACGCCTGTGGGGATCTGAGTGTTCCTTGCTGAGACACTTCTCCTGCTGTCTGA  
GGTGGTGGCCCTGGCCTCAGTGGGCTGCTGCTACATGAAGCTGAGTGACCCTGGCGGCTACCCACTGAGTCAGTG  
GGTGGCTGGGCTGCCTGGCTATGAACTGCCCTACCGGCTTCGGGAGGGGGCCTGCCATGCCCTGGAGGAATATGC  
TGAGCGGCTACAGAAAGCTGGCCCTGGCCTTCGAACTCACTGCTACCGTGCAGCACTGGAGACAGTCATCCGACG  
GGCCCGGCCCCGAGCTCCGTCGGCCAGGCGTGCAGGGTATCCCCAGGGTCCACGAGCTCAAGATTGAAGAATATGT  
GCAGCGGGGGCTACAGCGAGTGGGGCTAGATCCCCAGCTGCCACTGAATCTGGCTGCCCTTCAGGCCCACGTGGC  
CCAGGAGAACCGTGTGGTGGCCTTCTTCAGCCTGGCTCTACTGCTTGCCCCACTGGTGGAGACGCTTATTCTACT  
GGACCGGCTGCTGTACCTTCAGGAACAGGGTTTCCATGCTGAGCTCCTGCCATCTTCAGTCCTGAACTCTCTCC  
CAGAAACCTGGTTCTGGTGGCCACCAAGATGCCCCTGGGTGAGGCTCTTTCTGTTCTGGAGACTGAAGACAGCTG  
ATGCAGCCTGAGGAAACATCTCAGACCCCATCATCTGAAAGTGCCCAGAGAGCACAGTGGCAGAGTACATCTCAT  
CCAGAGAAACAGCATCCTGCATCCTCCAGAGTCCTGGTTTCCTTCAGTTTCATCCCCCTTCTCTCCTTCCATGGAT  
TATGTAATACATTGTAAAGTTTTAATTAATTAATAAATTGGATATCTG

5/5332  
**FIGURE 5**

CTGGGAGGTAGGTTTGTGAGCGTGAGAGATCGATCTGTACCGCGGGGATCCGAAGTATGCTTATCCAGGTGGGCT  
GCCTCAAGCCCTCGATCCCACCCCGCGCTGGTAGATGGTGTCAAGGTCCTTGCGTGGGAGAAGGACTTGGGTGAG  
ATGCATGCGGAGATTGCCCCAATTCCGGCCTGGAGCCAAGGGAAAGGGATGCCTGGATTTGTGTCTCTATTGGT  
GGTCCACGCTGCGGATGCCTGGGTAGCCCAGAGGTTATCTACGCCATACTTCTCACTGTTTTTGAGCATACCTAG  
ATGTTCCCTTTCCCTAGGCGGAGTATAGATCGCACGTGTTCTAGCCTCTTAGACTCAGAGGGTTCCGAGCTCTATAAG  
CCCCTCCACTCCCTTCATTTTACAAATGAGACTCAAACCTAGAGCGCGGTAATGACCTTACTAAGACCAAAATGGC  
TGGTGAATTGGGCTTCACTAGAATCCAGGCTTGCTGGCTAACACCAATGCTCCCTCCATCATTTTCATGTTATGTT  
TTCATTTCCCTCTGTCTGAGAGATTGCTCTGATGTCTTTCCCTCCATAAGTCCCTACGGAGATCGAGCTTACCTC  
ATTTTTCTCCCAGGCCTAGGAGCTCAATTACCAGGATCACTTTCTTCCCCAGGGTGTACTACAGACCTCCACATG  
TTGGACAGTAGGATTCAGCAGAGAATGAGTCCCACATCCTCTTTTCATCCATAAGCCACTCTTCCCAACTACTCT  
TCCGCCTTCCATTGTCCCTATGCTACTTTACTGCTCAATCTGGATTTTGGGGAACCTCCTCCCAAAAAGGCATT  
AGAAGGAAATGCCAAGCACCGAAATTTTGTCAAGAAGCGGAGGCTCTTAGAACGGAGAGGCTTTCTGAGTAAAAA  
GAACCAACCCCTAGCAAGGCGCCTAAGTTGCACTCTGAACCTTCAAAGAAAGGGGAACTCCTACGGTCGATGG  
CACTTGGAAGACCCCTTCTTCCCAAAAAGAAGACAGCTGCTTCCAGCAATGGGTGAGGACAGCCCTGGACAA  
GAAAGCTGCAGTGTCTTGGTTGACCCCTGCCCCTTCAAAAAGGCTGATTCTGTTGCTGCTAAAGTAGATTGCT  
GGGGGAGTTCCAGAGTGCCCTTCCAAAGATCAATAGCCACCCAACCGCTCTCAGAAGAAGAGCTCCAGAAGAA  
ATCCTCTAAAAAGAACCATCCTCAGAAGAATGCCCCACAGAATCCACCCAAGCTCATTAGAGAATAAATGCTC  
CGGAGCATCCCAGAAGTTGCCACGGAAGATGGTGGCAATTGACTGTGAGATGGTGGGCACAGGACCAAGGGGCA  
TGTTAGTTTCTTGGCTCGATGTAGCATTGTCAACTACAACGGAGATGTGCTTTATGACGAGTACATTCTTCCCCC  
CTGCCACATTGTGGACTACCGAACCAGGTGGAGTGGTATCCGGAAGCAGCACATGGTGAATGCCACACCCCTTCAA  
GATTGCTCGAGGCCAGATCTTGAAGATACTCACAGGGAAGATAGTGGTGGGGCATGCCATCCACAACGACTTCAA  
AGCCCTTCAGTACTTTACCCCAAGTCCCTCACCCGTGACACCTCCCATATCCCCCCCCCTCAACCGGAAGGCTGA  
CTGCCCCGAGAATGCCACCATGTCTCTGAAGCATCTCACCAAGAAGCTGCTAAACCGGGATATCCAGGTTGGGAA  
GAGCGGACATTCTCTGTGGAAGATGCCAGGCCACCATGGAGCTATATAAGTTGGTTGAAGTCGAGTGGGAAGA  
GCACCTAGCCCGGAATCCCCCTACAGACTAGTGGCAGTGGGGACGCTGGTGATATGAGGAGGCAGAGGCAGCACC  
CAGGAGAAACAGGGCAGTGGACCAATGGACAGCTCCACCAGCTCCACATCTTTGGAAGCTAGATTGGGGAGAGA  
GAAGCTCTACCCAGACTTAATACCCATTGAAATTTACCTCAGGTGTTGTGCTCCTGTCTGGTTAAGTGTCCC  
ATGGAAGGGGAAAGCCTTACGTCAGAACCCAACCTATACCTTTTACTTCTTAAATGGTGCTAACCACAGGTGT  
CCCAGGGTGCTCTGTGCCAGTTAAGATTTTTAACTTTCAAGGGGCAGGGCATACTGGGAAATGTAGTTTCCCAA  
CTGCCTTATCACTTGGGTGGACATATGTCTCCTTTTATGCCTTTTGGTCTTGAGTAATTAACAGCATCCTCTTCC  
ACGCTCAGAAGTGTCTGTTGGGTGGGGCCAGGCATGGTGGCTCACACCTGTAGTCCCAACACTTAGGGAGGCCGAGG  
CGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGCGAATTCCTGTTCTACTAAAAAT  
ACAAAAAATGTGTGGGTGTGGTGGCAGGAGCCTGTAATCCTAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCT  
TGAGCCCAGGAGGCGGAGATTGCAGTGAGCCGAGATCGTGTCACTGCACTCCAGCCTGGGTGACAAGAGTGAGAC  
TCCGTCTCAAAAAAAAAAAAAAAAAAGAATTTATTAACCTGGTTGGTTAATAAATTGTGTGGTCCCTGCCGGGCGTG  
GTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGACGGGCAGATCACGAGGTCAGGAGATCGAGACCAT  
CCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGGGCACCTGTA  
GTTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATT  
GTGCCACTGCACTCCAGCCTGGGCCACGGCCACAGAGCGAGACTCTGTCTC

6/5332  
**FIGURE 6**

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT  
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCAACTTCT  
CTGGCAACTGGAAAATCATCCGATCGGAAAACCTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA  
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTTCTACATCAAAA  
CCTCCACCACCGTGCGCACCACAGAGATTAACTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA  
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG  
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAAGTATCCTGACCATGACGGCGGATGACGTTG  
TGTGCACCAGGGTCTACGTCCGAGAGTTGAGTGGCCACAGGTAGAACC GCGGCCGAAGCCCACCCTGGCCATGCT  
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCTCCTTCTAGGATAGCGCTCCCCCTTACCCCAGTCACTTC  
TGGGGGTCACTGGGATGCCTCTTGCAAGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCTACACCAACAAAGA  
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCCTCCCCAAGTCAGCAGTCTTAGCCCCA  
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC  
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAATGCTTTAAAAAA ,

7/5332  
**FIGURE 7**

AGTCGCTCAGGCTACTCCCACCCGCCCCGCCCCGTCATTGTCCCCGTCGGTCTCTTTTCTCTTCCGTCCTAAAA  
GCTCTGCGAGCCGCTCCCTTCTCCCGGTGCCCGCGTCTGTCCATCCTCAGTGGGTGAGACGAGCAGGATGGAGG  
GCTGCAGAACTGGCTCAGGAAAGCCCTCCTGGGATGGCTGGAGTGGAATGAGGATGAGGCAGAGCTGAATCTG  
AGGGAGCAGGATGGCTTCACTGGGAAGGAGGAGGTGGTAGAGCAGGGAGAGCTGAATGCCACAGAGGAGGTCTGG  
ATCCAGGCGAGGGGCACCCAGAGAGCCCTGAGCCCAAAGAGCAGAGAGGCTGGTTGAGGGAGCCAGTGTGAAG  
GGAGGGGCTGAGGGCCTCCAGGACCCTGAAGGGCAATCACAACAGGTGGGGGCCCCAGGCCTCCAGGCTCCCCAG  
GGGCTGCCAGAGGCGATAGAGCCCTGGTGAAGATGATGTGGCCCCAGGGGGTGACCAAGCCTCCCCAGAGGTC  
ATGTTGGGGTCAGAGCCTGCCATGGGTGAGTCTGCTGCGGGAGCTGAGCCAGGCCCGGGGCAGGGGGTGGGAGGG  
CTGGGGGACCCAGGCCATCTGACCAGGGAAGAGGTGATGGAACCAACCCCTGGAAGAGGAGAGTTTGGAGGCAAAG  
AGGGTTTCAGGGCTTGGAAGGGCCCTAGAAAGGACCTAGAGGAGGCAGGTGGTCTGGGGACAGAGTTCTCCGAGCTG  
CCTGGGAAGAGCAGAGACCCCTGGGAGCCTCCCAGGGAGGGTAGGGAGGAGTCAGAGGCTGAGGCCCCCAGGGGA  
GCAGAGGAGGCGTTCCCTGCTGAGACCCTGGGCCACACTGGAAGTGATGCCCTTACCTTGGCCTCTGGGGTCA  
GAGGAAGCTGAGGAGGATGTACCACAGTGCTGGTCTCCCCAGCCCCAACGTACACCCCGATCCTGGAAGATGCC  
CCTGGGCCTCAGCCTCAGGCTGAAGGGAGTCAGGAGGCTAGCTGGGGGGTGACAGGGGAGGGCTGAAGCCCTGGGG  
AAAGTAGAGAGCGAGCAGGAGGAGTTGGGTTCTGGGGAGATCCCCGAGGGCCCCCAGGAGGAAGGGGAGGAGAGC  
AGAGAAGAGAGCGAGGAGGATCAGGAGGAGGGGAGGGAGCCAGGGGCTGGGCGGTGGGGGCCAGGGTCTTCTGTT  
GGCAGCCTCCAGGCCCTGAGTAGCTCCAGAGAGGGGAATTCCTGGAGTCTGATTCTGTGAGTGTGAGTGTCCCC  
TGGGATGACAGCTTGAGGGGTGACGTGGCTGGTGCCCCCAAGACTGCCCTGGAACGGAGTCCCAGGACAGTGCT  
GAGCCTTCTGGCTCAGAGGAAGAGTCTGACCCTGTTTCTTGGAGAGGGAGGACAAAGTCCCTGGCCCTCTAGAG  
ATCCCCAGTGGGATGGAGGATGCAGGCCCAGGGGCAGACATCATTGGTGTTAATGGCCAGGGTCCCAACTTGGAG  
GGGAAGTCACAGCATGTGAATGGGGGAGTGATGAACGGGCTGGAGCAGTCTGAGGAAGTGGGGCAAGGAATGCCG  
CTAGTCTCTGAGGGAGACCGAGGGAGCCCTTTTCAGGAGGAGGAGGGGAGTGCTCTGAAGACCTCTTGGGCAGGG  
GCTCCTGTTACCTGGGCCAGGGTCAGTTCTGAAGTTCACTCAGAGGGAAGGAGATAGAGAGTCTGGTCTCA  
GGGGAGGACTAGGAAAAGACCATCTGCCCGGCACTGGGGACTTAGGGGTGCGGGGAGGGGAAGGACGCCTCCAAG  
CCCGCTCCCTGCTCAGGAGCAGCACTCTTAACCTACGATCTCTTGACATATGGTTTCTGGCTGAGAGGCCTGGCC  
CGCTAAGGTGAAAAGGGGTGTGGCAAAGGAGCCTACTCCAAGAATGGAGGCTGTAGGAATATAACCTCCCACCCT  
GCAAAGGGAATCTCTTGCCTGCTCCATCTCATAGGCTAAGTCAGCTGAATCCCGATAGTACTAGGTCCCTTCCC  
TCCGCATCCCGTCAGCTGGAAGGGCCTGTGGCCAGAGGCTTCTCCAAAGGGAGGGTGACATGCTGGCTTTTGT  
GCCCAAGCTCACCAGCCCTGCGCCACCTCACTGCAGTAGTGACCATCTCACTGCAGTAGCACGCCCTCCTGGGC  
CGTCTGGCCTGTGGCTAATGGAGGTGACGGCACTCCCATGTGCTGACTCCCCCATCCCTGCCACGCTGTGGCCC  
TGCTGGCTAGTCCCTGCCTGAATAAAGTAATGCCTCCGCTTC

8/5332  
**FIGURE 8**

CGCTCGTCCTTGCTCTCGCCGCTGCTGCCGGAGCCGAAGCAGAGAAGGCAGCGGGTCCCGTGACCGTCCCGAGAG  
CCCCGCGCTCCCGACCAGGGGGCGGGGGCGGCCCGGGGAGGGCGGGGCAGGGGCGGGGGAAGAAAGGGGGTTT  
TGTGCTGCGCCGGGAGGGCCGGCGCCCTCTTCCGAATGTCTGCGGCCCCAGCCTCTCCTCACGCTCGCGCAGTC  
TCCGCCGCAGTCTCAGCTGCAGCTGCAGGACTGAGCCGTGCACCCGGAGGAGACCCCGGAGGAGGCGACAACT  
TCGCAGTGCCGCGACCCAACCCAGCCCTGGGTAGCCTGCAGCATGGCCCAGCTGTTCTGCCCCCTGCTGGCAGC  
CCTGGTCTGCCCCAGGCTCCTGCAGCTTTAGCAGATGTTCTGGAAGGAGACAGCTCAGAGGACCGCGCTTTTCG  
CGTGCGCATCGCGGGCGACGCGCCACTGCAGGGCGTGCTCGGCGGCGCCCTCACCATCCCTTGCCACGTCCACTA  
CCTGCGGCCACCGCCGAGCCGCGGGCTGTGCTGGGCTCTCCGCGGGTCAAGTGGACTTTCTGTCCCGGGGCGG  
GGAGGCAGAGGTGCTGGTGGCGCGGGGAGTGCGCGTCAAGGTGAACGAGGCCTACCGGTTCCGCGTGGCACTGCC  
TGCGTACCCAGCGTCGCTACCCGACGTCTCCCTGGCGCTGAGCGAGCTGCGCCCCAACGACTCAGGTATCTATCG  
CTGTGAGGTCCAGCACGGCATCGATGACAGCAGCGACGCTGTGGAGGTCAAGGTCAAAGGGTCTGCTTTTCTCTA  
CCGAGAGGGCTCTGCCCCGCTATGCTTTCTCCTTTTCTGGGGCCAGGAGGCCTGTGCCCCGATTGGAGCCACAT  
CGCCACCCCGGAGCAGCTCTATGCCGCTACCTTGGGGGCTATGAGCAATGTGATGCTGGCTGGCTGTGCGATCA  
GACCGTGAGGTATCCCATCCAGACCCACGAGAGGCCTGTTACGGAGACATGGATGGCTTCCCCGGGGTCCGGAA  
CTATGGTGTGGTGGACCCGGATGACCTCTATGATGTGTACTGTTATGCTGAAGACCTAAATGGGAACTGTTCTT  
GGGTGACCTTCCAGAGAAGCTGACATTGGAGGAAGCACGGGCGTACTGCCAGGAGCGGGGTGCAGAGATTGCCAC  
CACGGGCCAACTGTATGCAGCCTGGGATGGTGGCCTGGACCACTGCAGCCCAGGGTGGCTAGCTGATGGCAGTGT  
GCGCTACCCCATCGTCACACCCAGCCAGCGCTGTGGTGGGGGCTTGCCCTGGTGTCAAGACTCTCTTCTCTTCCC  
CAACCAGACTGGCTTCCCCAATAAGCACAGCCGCTTCAACGTCTACTGCTTCCGAGACTCGGCCCAGCCTTCTGC  
CATCCCTGAGGCCTCCAACCCAGCCTCCAACCCAGCCTCTGATGGACTAGAGGCTATCGTCACAGTGACAGAGAC  
CCTGGAGGAACTGCAGCTGCCTCAGGAAGCCACAGAGAGTGAATCCCGTGGGGCCATCTACTCCATCCCCATCAT  
GGAGGACGGAGGAGGTGGAAGCTCCACTCCAGAAGACCCAGCAGAGGCCCCCTAGGACGCTCCTAGAATTTGAAAC  
ACAATCCATGGTACCGCCACGGGGTTCTCAGAAGAGGAAGGTAAGGCATTGGAGGAAGAAGAGAAATATGAAGA  
TGAAGAAGAGAAAGAGGAGGAAGAAGAAGAGGAGGAGGTGGAGGATGAGGCTCTGTGGGCATGGCCAGCGAGCT  
CAGCAGCCCGGGCCCTGAGGCCTCTCTCCCACTGAGCCAGCAGCCAGGAGGAGTCACTCTCCAGGCGCCAGC  
AAGGGCAGTCCTGCAGCCTGGTGCATCACCATTCTGATGGAGAGTCAGAAGCTTCCAGGCCTCCAAGGGTCCA  
TGGACCACCTACTGAGACTCTGCCCCACTCCAGGGAGAGGAACCTAGCATCCCCATCACCTTCCACTCTGGTTGA  
GGCAAGAGAGGTGGGGGAGGCAACTGGTGGTCTGAGCTATCTGGGGTCCCTCGAGGAGAGAGCGAGGAGACAGG  
AAGCTCCGAGGGTGCCCCCTTCCCTGCTTCCAGCCACACGGGCCCCCTGAGGGTACCAGGGAGCTGGAGGCCCCCTC  
TGAAGATAATTCTGGAAGAACTGCCCCAGCAGGGACCTCAGTGCAGGCCCAGCCAGTGCTGCCCACTGACAGCGC  
CAGCCGAGGTGGAGTGGCCGTGGTCCCGCATCAGGTGACTGTGTCCCCAGCCCCCTGCCACAATGGTGGGACATG  
CTTGAGGAGGAGGAAGGGGTCCGCTGCCTATGTCTGCCTGGCTATGGGGGGGACCTGTGCGATGTTGGCCTCCG  
CTTCTGCAACCCCGCTGGGACGCCTTCCAGGGCGCTGTACAAGCACTTTTCCACACGAAGGAGCTGGGAGGA  
GGCAGAGACCCAGTGCCGGATGTACGGCGCGCATCTGGCCAGCATCAGCACACCCGAGGAACAGGACTTTCATCAA  
CAACCGGTACCGGGAGTACCAGTGGATCGGACTCAACGACAGGACCATCGAAGGCGACTTCTTGTGGTTCGGATGG  
CGTCCCCCTGCTCTATGAGAACTGGAACCTGGGCAGCCTGACAGCTACTTCTGTCTGGAGAGAACTGCGTGGT  
CATGGTGTGGCATGATCAGGGACAATGGAGTGACGTGCCCTGCAACTACCACCTGTCTTACACCTGCAAGATGGG  
GCTGGTGTCTGTGGGCGGCCACCGGAGCTGCCCCCTGGCTCAAGTGTTTCGGCCGCCCCAGGCTGCGCTATGAGGT  
GGACACTGTGCTTCGCTACCGGTGCCGGAAGGACTGGCCCAGCGCAATCTGCCGCTGATCCGATGCCAAGAGAA  
CGGTGCTTGGGAGGCCCCCAGATCTCCTGTGTGCCAGAAGACCTGCCCGAGCTCTGCACCCAGAGGAGGCC  
AGAAGGACGTGAGGGGAGGCTACTGGGACGCTGGAAGGCGCTGTTGATCCCCCTTCCAGCCCCATGCCAGGTCC  
CTAGGGGGCAAGGCCTTGAACACTGCCGGCCACAGCACTGCCCTGTACCCAAATTTTCCCTCACACCTGCGCT  
CCCCCACCACAGGAAGTGACAACATGACGAGGGGTGGTACTGGAGTCCAGGTGACAGTTCTTGAAGGGGCTTCT  
GGGAAATACCTAGGAGGCTCCAGCCCAGCCCAGGCCCTCTCCCCCTACCTTGGGCACCAGATCTTCCATCAGGGC  
CGGAGTAAATCCCTAAGTGCCCTCAACTGCCCTCTCCCTGGCAGCCATCTTGTCCCCTCTATTCTCTAGGGAGCA  
CTGTGCCCACTCTTTCTGGGTTTTTCCAAGGGAATGGGCTTGCAGGATGGAGTGTCTGTAAAATCAACAGGAAATA  
AAACTGTGTATGAGCCC

9/5332  
**FIGURE 9**

TTGCCATTACCCACAGAATAAAGAAAGGGGCCCTGTTATTCAACAATAGGGGAAAAGACAGAGACAATGGGAAAT  
TGTGCTTCCGATGGGGTGGGGACTGAGAAGGAAAGGACAGACAGACAGACAGAGGGGGTTGTACAGAAGAGGT  
CCGGTTTCTTGAAGCAGCTGGAAGTCCTGGATAGTTCCACCTGAAAGTCTGTTTGCAAAGGCAATGCGCACTCA  
GGCACCAGAGGGCAGAGGGGCTCAAGTTCCAGGGTTTTAAGGTGCTTGGAAGTCCCAGGAGCCTGGCAAACCTTC  
ATCCAGAACCTCTTCTCAAGCAAGACAAAAGCTGCTAAGCACTGCTCCCTCCGTCTCTGTGAAGAGACCAGCT  
TCTAACAGACGGTGCCGGGCTGACCCCCCATCATGCCAGGCTGGCTCACCTCCCCACACTCTGCCGCTTCCTTC  
TTTGGGCCTTCACCATCTTCCACAAAGCCCAAGGAGACCCAGCATCCCACCCGGGCCCCACTACCTCCTGCCCC  
CCATCCACGAGGTCATTCACCTCTCATCGTGGGGCCACGGCCACGCTGCCCTGCGTCCTGGGCACCACGCCTCCCA  
GCTACAAGGTGCGCTGGAGCAAGGTGGAGCCTGGGGAGCTCCGGGAAACGCTGATCCTCATCACCAACGGACTGC  
ACGCCCCGGGGTATGGGCCCTGGGAGGGCGCGCCAGGATGCGGAGGGGGCATCGACTAGACGCCTCCCTGGTCA  
TCGCGGGCGTGCGCCTGGAGGACGAGGGCCGGTACCGCTGCGAGCTCATCAACGGCATCGAGGACGAGAGCGTGG  
CGCTGACCTTGAGCTTGAGGGTGTGGTGTTCGCTACCAACCCAGCCGGGGCCGGTACCAGTTCAATTACTACG  
AGGCGAAGCAGGCGTGCGAGGAGCAGGACGGACGCCTGGCCACCTACTCCCAGCTCTACCAGGCTTGACCGAGG  
GTCTGGAAGTGGTGTAAACGCGGGCTGGCTGCTCGAGGGCTCCGTGCGCTACCCTGTGCTACCGCACGCGCCCCGT  
GCGGCGGCCGAGGCCGGCCCCGGGATCCGCAGCTACGGACCCCGCGACCGGATGCGCGACCGCTACGACGCCTTCT  
GCTTCACCTCCGCGCTGGCGGGCCAAGTGTTCCTCGTGCCCGGGCGGCTGACGCTGTCTGAAGCCACGCGGCGT  
GCCGCGACGCGGCGCCGTGGTGGCCAAGGTGGGCACCTCTACGCCGCTGGAAGTTTTCGGGGCTAGACCAGT  
GCGACGGCGGCTGGCTGGCTGACGGCAGTGTGCGCTTCCCAATCACCACGCCGAGGCCGCGCTGCGGGGGGCTCC  
CGGATCCCGGAGTGCGCAGTTTCGGCTTCCCCAGGCCCAACAGGCAGCCTATGGGACCTACTGCTACGCCGAGA  
ATTAGGCGCCACCGTGTCCCTCCAGCGCGCGCAAGAAGCTTGGGAGTCGTGGCGGGGGTCTCTCGCCACCCC  
TTCCGGAGAGCCTCCCCCTCCAGACCCGGAGCGGCCTCTCCAGACCTGCCTTCCCAGCCGGGGGGCTGCGGG  
CCTCGGACCCCGGCTGGCCCCGGCGGGGAGGGGAGGGGGGCGCTCCGGCGGCGAGATGCAGAGGTGACCC  
TCGGACCCGCTGCCGTTTCGCGAACCCTAGCAGAGGACTCAGCCACCGCCGGGGGAGGGTGAGGCGGCCGGGGG  
ATTAAGTACCTCTGAGTACAGCAATAAAATAACCTGGGGATCTTT

10/5332  
**FIGURE 10**

GGCGGCGCACAAAGTCAGGTCCGGGCACATGTTTTCCGCGGAGCGGACCCAGCAATGACGGATGATATCACCTCTTCT  
TCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACCATGAATGTCACCCAGAGGTCAAGAGTCGTGGGAT  
GAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCGGAAGGAGAATGGTAT  
CACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGCCAAGGAGTTCACAAA  
CCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAAGTGGGCAGGATGGAGTACAGAT  
AAGGAGCCTTTCTAAGGAGACCACCGTTATAATCATCCCAAGCCAACTTGCTGTATCAGAAGTTTGTGAAGAT  
GGCTACATTGACTTCAGGTGGAGAGAAGCCAAACAAAGACTTGAGAGCTGCAGTGATGACGACAACCAGGGGTC  
CAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGCACACAAGGCTGCCCCG  
TCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCTGGCTCGTCTCAAAGG  
CCAGGACCCTGGGGCCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCAAAAAAAGAAAAAGAAAGGAGGCAGAA  
AGAGGAGGAAGAAGCTACAGCATCTGAAAGGAATGATGCAGATGAGAAGCACCCAGAACATGCTGAGCAGAACAT  
CAGAAAAAGCAAGAAGAAGAAAAGGCGACATCAAGAAGGAAAGGTCTCAGATGAAAGAGAGGGTACAACATAAGG  
GAATGAGAAGGAGGACGCTGCAGGAACAAGTGGGCTTGGGGAATTGAATAGCAGAGAGCAAACCAATCAGTCCCT  
CAGGAAAAGGGAAGAAAAGAAGAGGTGGCACCATGAAGAGGAGAAGATGGGGGTCTTGGAGGAAGGAGGAAAAGG  
CAAGGAGGCTGCAGGCAGTGTGAGGACAGAGGAGGTAGAGAGCAGGGCATATGCTGACCCATGCAGCCGAAGAAA  
GAAGAGGCAGCAACAGGAGGAGGAGGACTTGAACCTAGAAAGATAGAGGTGAGGAACTTTTAGGTGGTGGAACCA  
GGGAAGCAGAGAGCAGAGCATGCAGTGATGGAAGAAGCAGGAAAAGCAAGAAGAAAAGACAGCAGCATCAAGAGG  
AGGAGGACATCTTGGATGTAAGGGATGAGAAGGATGGCGGGGCTAGGGAAGCAGAGAGCAGAGCACACACTGGCT  
CAAGCAGCAGAGGTAAGAGGAAGAGGCAGCAGCATCCCAAGAAGGAAAGAGCTGGAGTCAGCACTGTCCAGAAAG  
CCAAAAAGAAACAGAAGAAGAGAGACTAAAGGTCTGGTAAAGGTAGGGCTCAATTGATTGATTTTCAGGAGTTGA  
AGCCTCAAAGACCAGGGTTGATGCAGGTCTGCAGGTCTTCTGCACCCCCCTCAATGAGGAGTCCCTCCCAGAAAG  
GAAACTGATCTCTGGGACGTGAGCTGCTGAGAGGAGCAAGCGGTAGTACCACCCCTTAGTTGAGGGAGTCAGCAC  
AGTCTTTCTGCAGCTTCTAATCCAGGACCATGAACTCAGGTGCCTAGAGAAGCCAGGCAGCTAAAGGACAAGGA  
ATGCTGGGGGCTGTGGGAACAGGAATGCAGATACCCTTTGAAGGAGCATTCTGCTAAAAGAAGCTGAAAATGTA  
GACCTATGTGAAGTGCTCTGATTTCTAAATATTGTGAAGGTTAAGAAAAACATAAATTTAGGTCTATGGGCTAGA  
TTTAGCCACAGTTGCCAGTTTCTAGCGCTACCAAATGAATGAATAAACATGAGCTTGCGCTCCTAGCCTAGAGA  
TAAATCCTGACTGGCATCTCTGTTCCAGCCTGGGAAGGTCCTGAATACAAATTAGAAGATATTCTTTGGAGGCC  
TTTGAAGAAATTCCTTCGGTTAACCTCTTTGTAGTCTTGCTACACTGATAAGTAGAAGTAGCTCCCTGTCTGTGT  
CCCAAATGAATAAGAATTGTGTAAAGGACAGCA



11/5332  
**FIGURE 11**

ATAAGGCCTTCTCAACACCATCACCATCCCTATTCCCTTGTGGAAGCCCCCTAAGAATTTATAGCTCCAGGCAGT  
GGTTTGCCAGCCCCCACCATTGCTCCTTGAGGAGCCACAGGGAGGTGTGCCATCCTGCATACTCGAACTTGGATA  
GGAGATGGGCTGCTGCTGCTGGGATGTCAGCAGCTTTGGCCTCTCTCACCCACAGCTGGCTGGTGAGCAGAACA  
AGAAGAGGAAATGCTCTGGTTTCATCAGGTCTTCACAGTGGACAAGTGCCAGTGACTGACAGTAAAGATGCCCCGC  
TCCACCCCGACCATAGTACCTGTTTACAGTACCTTCATTTAATCAGATTAATTGAGAGTCTACTATGGGCCAAGG  
AGTTGGGGATTTCAGAGTGAATAAGAATGAGATGGGCCCAGCCCAGATGGAATCTACATAGGCAATTATGATGGA  
AGTGTTCCTGTGATAGAGGAAGGGTACTCAACTCAGACTTCAGAGAATGGCTTCTAAAAGTAACTGATGTATAA  
GCTGAGCTCTGGAGGATAAGAGAAACTCAGAAGGTAAAGGGGGAAAGGGAGAAAGATGTCCCAAGCAGAGGGAGC  
AACATGTGCAATAACCTGAAGATGGAAGACTGTCGTACCTTCAAAGAAAAGAAAACAGATTGGAATCTGTTATGCT  
AATGGTTAGGCTAAAGTAGTGGTCTGAGAGAAAAGTGAAGAGATGAGGCTGGAGATGGCAGGAACAGGCATGCAG  
AGCCATATAAGCCAGTCCGATAAATCTGGATTGTGTCATCCTAGGTCAAACAAGACCCAGTGACATGATGACATT  
TATGTTTTAGAGAGAACTGGATGCTTTGTGGAGAAGTCCATCCTCCACAAAGGTTGGGGTGGGGAGTGAGACT  
ACAGGTGTTCTTAGGAGGCTGCTGGAGAAAAGAAATTAGGCAAGAGATGATGATGGCCCGAAGTGGGGTAGTAGAT  
GGTAACAGAGATGTAGAGAAATGGGAAAGATTTGCTAGGTAACATGTATAGCCCTTAGCACATAATGACCATTAC  
ATGTTAGCTTCCCTCCTATTGGTACAGTAGAAAAGTGGAGGCCTGAAGTCCTGGGTTCCAGTCTGTTTGCCATTAC  
TAGCCAGCTGTGGGCTCTTCAGCAAACCACTTTTACCCCTTTTAGCCACATCTGCAAAGCAGGGATGGTCCAGAT  
AATCTCTCAGGTCTCCTCTGGCTTCTAAGTCCTTTGAATTAGATGTCCCTGGCCCCCCCCAAAATTTGGCAGCTC  
CTGACTTAAGAGACTGTACCCTACCTCCCACGCCCTATTGCTGCTCCCTTAACAGATGGCAGGATCCACGGAACC  
TGAAGATCTCAATTCCTGCTGAGGGTCTGGGCAGTCTAAGTAAGCAACAGCAAGGCTGGTCACAGGATCCCACTA  
TGTTAGGAAAGTTCTGAGAATTGATAAGGCATACAAGGCAACTGTTACAGCCCCAGGGAAACCAGGGAAGAGAAA  
AAGGATGGACTCTGTTACCCACAGCCTCTAATACCTTCACAACTTCTGATACAGCAAGTTGGGCTTGGGATGAT  
TATAACGGGTGGTCTCCTTAGAAAGGCTCCTTATCTGTACTCCATCCTGTAGAGAATTATCAGTACCAGTGAATG  
GGTGACATATCATGACTGCCTACGCCACAGGTCCCAGGCCCTCTGTTTCATGTGCCCATCTATCAAGAGCTCATA  
CCTGCCAGTTTCCACTACCAAGTTGGCCGAGTCTTGTGAAGAGCTCATTCCACCAGTGGTTTGTGAACCTCCT  
TGGCAGGGTCATGTCCTACCTGCCAGGGGAATAAATATGAGCTCTGAGTGCCTGCCTCACCTGCCCTCAAGGGTC  
CCCTCTCCCACACATGCTAACCTTCCTCAGTCCACCCAGTCTTACCCCATGAGTGTCTTGCTTCAGTGTACCCCT  
GAGAGCCTGAGTGATAACATTCTCCTTCCGGCCGAGGCCTTTGCCTGCAGAGGACAGTGAGCGATTTGGCTTATT  
CTCCTGCCTGCTGTGAGACCTCACAAGGCACCCCCACACAGGCCTCTTGCCATTCCACACACCTGACATTGGGG  
TATACTCTGTACCTCTCAGAAGACCTCCTAGCGCACTTCTTTCTAGTACCCTCCATATAGTCCCCTGCCTTTGT  
GTGAGCCTGAACTATCTCTCCTTCAAATTCTTTTGGTAGAGAGCCCATATCTCTTTTTCCCTCCCCTAGTCCCTC  
CCAACCACCACTTCTTCATTATCCACTGTCAAATTTCTTCCTTTCTTCCCTTTTCTGGGAAAGTTAGAAATTTTC  
TTCTGCAAATTTCCCTTTAACTAGCTTTTCCCTCCTTTAATTAAATGGACTACATGGGGGGGTAATCCAGGATGA  
TGGCTTTTCCCTTGGGAGATGGTAGGCAGGGAGCTGGGGGATGTGGAAGAGGCCCATGGGGATCACCTTGAGTC  
CATCCATGCTTTAGCAGCTGCTCCTCAGCAAACCTTCATCCACGACTCTTGACCTCTGGGGTGACATTCATGGTG  
AGAAAAAGTCTCTATCCTCAGACTCTCACCAGAGAAGAAGAGGTGATATCATCCTTTTAAAGAAGAAAGTAGAAA  
GTGCCCAAACAGCCATCAGTTCCATCCTGACTGCTTGTAAAGAATTCTCTGCTAGTTGGGTGCAGTGGCACACAC  
CTGTAGTCCCAGCTACATGGGAGGCTGAGGCGGGATTGCTTGAGTCCAGCCTGGGCAGTATAGCAAGACCCTCTC  
TCATAAAAAGAATAAAGCGGCCAGGCACAGTGGTTACATTTGTAATCCCAGCACTTTGGAAGGCCAAGGTAGAA  
GAATCACTTGAGCCCAGGAGTTCCAGACCAGTGTGGGCAACGTAGTGAAACCCTGCCTCTAGAAAAATAAAAAA  
TTAAAAAG

12/5332  
**FIGURE 12**

GGGCCGGGGGCGCGCTCTGCGAGCTGGATGTCAGGCTGCGGGCGCTGCTGGGCCTCGGGCTGCTGGTTGCGG  
GCTCGCGCTGCCGCGGATCAAAAGCCAGACCATCGCCTGTCGCTCGGGACCCACCTGGTGGGGACCGCAGCGGC  
TGAACTCGGGTGGCCGCTGGGACTCAGAGGTCATGGCGAGCACGGTGGTGAAGTACCTGAGCCAGGAGGAGGCC  
AGGCCGTGGACCAGGAGCTATTTAACGAATACCAGTTCAGCGTGGACCAACTTATGGAACCTGGCCGGGCTGAGCT  
GTGCTACAGCCATCGCCAAGGCATATCCCCCACGTCCATGTCCAGGAGCCCCCTACTGTCTGGTCATCTGTG  
GCCC GGGAATAATGGAGGAGATGGTCTGGTCTGTGCTCGACACCTCAAACCTCTTTGGCTACGAGCCAACCATCT  
ATTACCCCAAAGGCCTAACAAAGCCCCCTCTTCACTGCATTGGTGACCCAGTGTGAGAAATGGACATCCCTTTCC  
TTGGGGAAATGCCCGCAGAGCCCATGACGATTGATGAACTGTATGAGCTGGTGGTGGATGCCATCTTTGGCTTCA  
GCTTCAAGGGCGATGTTTCGGGAACCGTTCCACAGCATCCTGAGTGTCTGGAAGGGACTCACTGTGCCCATTGCCA  
GCATCGACATTCCCTCAGGATGGGACGTGGAGAAGGGAAATGCTGGAGGGATCCAGCCAGACTTGCTCATATCCC  
TCACAGCCCCCAAAAATCTGCAACCCAGTTTACCGGTGCTACCATACCTGGGGGGTCGTTTTGTGCCACCTG  
CTCTGGAGAAGAAGTACCAGCTGAACCTGCCACCCTACCCTGACACCGAGTGTGTCTATCGTCTGCAGTGAGGGA  
AGGTGGGTGGGTATTCTTCCCAATAAAGACTTAGAGCCCCTCTCTTCCAGAACTGTGGATTCTCTGGGAGCTCCTC  
TGGCAATAAAAGTCAGTGAATGGTGGAAGTCAGAGACCAACCCTGGGGATTGGGTGCCATCTCTCTAGGGGTAAC  
ACAAAGGGCAAGAGGTTGCTATGGTATTTGGAAACAATGAAAATGGACTGTTAGATGCC

13/5332  
**FIGURE 13**

CAGGGGCGAGGGCTACCCGCTCTTTGCCGTGACAACACCGTTCCCCCAGCCGGGCTGGAGGCTGTGCAGAAGGTA  
TCCTGCAGACCATGAAGTGAAGTACTGTTCCAGACCGTTTCATGAGCACAGTGTAAAGTGTGCCGAGACCCACCAC  
CCAGCGAGCCCCCTCCCCCTCCGTAGCACTGAGGACCCCCGGAGAAGATGGGGAGGAAAAAGATTTCAGATCCAGCGA  
ATCACCGACGAGCGGAACCGACAGGTGACTTTACCAAGCGGAAGTTTGGCCTGATGAAGAAGGCGTATGAGCTG  
AGCGTGCTATGTGACTGCGAGATCGCACTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACC  
GACATGGACAAGGTGCTGCTCAAGTACACGGAGTACAATGAGCCACACGAGAGCCGCACCAACGCCGACATCATC  
GAGACCCTGAGGAAGAAGGGCTTCAACGGCTGCGACAGCCCCGAGCCCCGACGGGGAGGACTCGCTGGAACAGAGC  
CCCCTGCTGGAGGACAAGTACCGACGCGCCAGCGAGGAGCTCGACGGGGCTCTTCCGGCGCTATGGGTCAACTGTC  
CCGGCCCCCAACTTTGCCATGCCCTGTCACGGTGCCCGTGTCCAATCAGAGCTCACTGCAGTTCAGCAATCCCAGC  
GGCTCCCTGGTCAACCCCTTCCCTGGTGACATCATCCCTCACGGACCCCGCGGCTCCTGTCCCCCAGCAGCCAGCA  
CTACAGAGGAACAGTGTGTCTCCTGGCCTGCCCCAGCGGCCAGCTAGTGCGGGGGCCATGCTGGGGGGTGACCTG  
AACAGTGCTAACGGAGCCTGCCCCAGCCCTGTTGGGAATGGCTACGTGCTCGGGCTTCCCTGGCCTCCTC  
CCTGTGGCCAATGGCAACAGCCTAAACAAGGTTCATCCCTGCCAAGTCTCCACCCCCACCTACCCACAGCAGCCAG  
CTTGAGCCCCCAGCCGCAAGCCCGACCTGCGAGTCACTTCCCAGGCAGGAAAGGGGTTAATGCATCACTTG  
ACTGAGGACCATTTAGATCTGAACAATGCCAGCGCCTTGGGGTCTCCAGTCTACTCATTGCTCACCACCCCA  
GTGGTTTCTGTGGCAACGCCGAGTTTACTCAGCCAGGGCCTCCCCTTCTCTTCCATGCCCACTGCCTACAACACA  
GATTACAGTTGACAGTGCAGAGCTCTCCTCCTTACCAGCCTTTAGTTTACCTGGGGGGCTGTGCTAGGCAAT  
GTCAGTGCCTGGCAACAGCCACAGCAGCCCCAGCAGCCGCAGCAGCCACAGCCTCCACAGCAGCAGCCACCGCAG  
CCACAGCAGCCACAGCCACAGCAGCCTCAGCAGCCGCAACAGCCACCTCAGCAACAGTCCCACCTGGTCCCTGTA  
TCTCTCAGCAACCTCATCCCGGGCAGCCCCCTGCCCCACGTGGGTGCTGCCCTCACAGTCAACACCCACCCCCAC  
ATCAGCATCAAGTCAGAACCGGTGTCCCCAAGCCGTGAGCGCAGCCCTGCGCCTCCCCCTCCAGCTGTGTTCCCA  
GCTGCCCCCCTGAGCCTGGCGATGGTCTCAGCAGCCAGCCGGGGGATCCTATGAGACGGGAGACCGGGATGAC  
GGACGGGGGGACTTCGGGCCCACACTGGGCCTGCTGCGCCAGCCCCAGAGCCTGAGGCTGAGGGCTCAGCTGTG  
AAGAGGATGCGGCTTGATACCTGGACATTAAAGTGACGATTCCCCTCCCCTCCTCTCAGCCTCCCTGATGAAGA  
GTTGACAATCTCACCGCCCCGCCCTTCCCTGCCCCGGGCTCCTCCCGCTCGACCCCCACTTCCTTTCTTGCTTC  
GTGTCCTGTTGACGGTTACATTTGTGTATAATTATTATTATT

14/5332  
**FIGURE 14**

CTCCTCACAGAAGCCTGGAGCTGGGCATCCAAGAAGAAGCAGCCTCATTGTTTTCTGGTGTTCATCGTAGGTGGC  
CACCTATGGCTTTTGGGAATGTAAAAAGGGCAGCTCTCTGGCATGTCCTGACTGAGGATCTCATAACATTTAAC  
TTGAGGAACTTCCTCCTTTTCCAGCTTTGGGAGTCAAGCTTCTCACCTGGGGCGGGTGGGTCTGCACCACCCTC  
CCACCCTCCTTCCTCCGTGTGGACGATAGAGCCACATCCAGCACCACGGACAGCTCCCGGGCGCCTTCATCTCCT  
CGTCCTCCAGGCAGCACAAAGCCATTGTGGAATCTCCACCAGGTGTACAGAACGGTGCCTCTGCGTCCTGCCACTC  
AGGACCTCTCAAGTCCCCGATGTGATGGCTCCTCAGCATGATCAGGAGAAATTCATGATCTTGCTTATTCCTGT  
CTTGGGAAGTCCTTCTCCATGTCTAACCAAGATCTATATGGCTATAGCACCAGCTCTTTGGCTCTTGGCTTGGCA  
TGGCTAAGTTGGGAGACC AAAAGAAGAATGTACTTCATCTGGTTGGGCTGGATTCCCTCTTGATAAAGCCTTCCCA  
GTTGACTGAAAAGATGAGGCTAGGCTCTAGCAAGTTGAAGTCAAACCAGCTCCTTCAAGAAGCTTTGAGCAGAATG  
AAGTGGGGAGGACCCAGCTTCCAGCCCAGGAAGCCCACTGTACCTGGAGCCATCTGGGATAAGACTTTGACCCAT  
GACTCCCATATCCACAGCCTGTCCATCCTAGCCCATCCAGTTTATCCTGTATCATTGAGCTGGGATTCCACA  
TCCTCTGAGTTGGAAGTCCCATCTCAAGTCTTCAATAAAGACTCTTGAATATTG

15/5332  
**FIGURE 15**

CAGGCGCCAAGGCTCTGGCAGTTGGCCAGCACACCACTACGCATGTGTGTCAACTCTAGGGTTGGGTGCTGGGGT  
TGCGGCTTTTCGGTTAACACCGCAGATTGGAACAGGCTGAGATCTGCTGGAGACAACCTAGGAAATTATCATAGTG  
AAAATACTAACATGGATTGTTGATCATCTGATGCTATGATTCTTTCCCAGGCACCACACCTGTTGGTGTTCAGAT  
GGAGCGGCACACTAGTCATCCTAACAGAAAAGTTCCAGCCAAAAGAGGAAGCTAATGCTGTGCCTCTCTGTAGAGC  
AAAACCCTCCCCCAGCTATATTAATCTTCAAGCAAGTTCCCCACCAGCCACTTTTCTGAACATCCAGACAACAAA  
GCTGCCCTCGGTTGATCACAAGCCCAAGGAATGCCTAGGACTCCTGGAATGTATGTATGCAAACCTCCAGCTTCA  
GACCCAGCTCGCCCAACAACAGATGGCTGTTTTGGAACATTTACAGGCATCTGTGACACAACCTGGCTCCTGGGAG  
GGGAAGCAATAACTCTTCTCTCCAGCCTTATCTCCTAATCCATTGTTAAATCACCTGCCCCAATTCAGTAAATG  
AATTGTGGAAC

16/5332  
**FIGURE 16**

TTGCGTAGGGGGCGGGACTAAGGCTGTCAATTGGTCTGTTTTTGTGCCGATCAATGAGATGGGTGCGGTGATTGG  
CGACTACCTTGAGAGTAGCGGGTTGAGGTGTAAGCCCTGAGGAGGCAGCGTTTTCTGGGCTTCTGTCTGGTTCTC  
TCTCTCCAGAAGGTTCTGCCGGTTCCCCAGCTCTGGGTACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATC  
GTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAACATCAATGCTG  
CCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGG  
GAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCA  
TGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATCTTGCAAGGGGAAA  
TGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTACCGCAAGGCAT  
TGGATGATATGATCAGCACCCCTAAAGAAAATAAGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTGAACA  
TCATCAACAGCTCTATTACTACCAAAGCCATCAGTCGGTGGTCATCTTTGGCTTGCAACATTGCCCTGGATGCTG  
TCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAGATAAC  
CTGGAGGCATCATTGAAGACTCCTGTGTCTTGGCTGGAGTCATGATTAAACAAGGATGTGACCCATCCACGTATGC  
GGCGCTATATCAAGAACCCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAGACTG  
ACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTG  
AGGACATTATCCAAGTGAAGCCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACCTTA  
TGCGGGCCAAATATCACAGCCATCCGCAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTGTGGGGCCC  
GGATAGTCAGCCGACCAGAGGAAGTGAAGAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAATCAAGAAAA  
TTGGAGATGAATACTTTACTTTTCATCACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCCTCCGGGGGGCTA  
GCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTGCAATGTTCTCCTGGACC  
CTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCCATGCCTTGACAGAAAAATCCAAGGCCATGA  
CTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCAGGCCCTAGAGGTCATTCTCGTACCCTGATCCAGAACT  
GTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGCCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTG  
TAAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGA  
CTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCACAAAAGAAAG  
GCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAAGTGTAGGCAAGGCTACTTCAATGC  
ACAGAACCAGCAGAGTCTCCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGCTTTTGTTCAGAAGGGA  
TCAGGTTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCAGCTCAGTTTTTCCAAAAGACACTGACATGTAATTCTTC  
TCTATTGTAAGGTTTCCATTTAGTTTGCTCCGATGATTAAATCTAAGTCATTG

17/5332  
**FIGURE 17**

GAATTGCGGCCGTATGCGCGGCTCTGTGGAGTGCACCTGGGGTTGGGGGCACTGTGCCCCAGCCCCCTGCTCCT  
TTGGACTCTACTTCTGTTTGCAGCCCCATTTGGCCTGCTGGGGGAGAAGACCCGCCAGGTGTCTCTGGAGGTCAT  
CCCTAACTGGCTGGGCCCCCTGCAGAACCTGCTTCATATACGGGCAGTGGGCACCAATTCCACACTGCACTATGT  
GTGGAGCAGCCTGGGGCCTCTGGCAGTGGTAATGGTGGCCACCAACACCCCCACAGCACCTGAGCGTCAACTG  
GAGCCTCCTGCTATCCCCTGAGCCCCGATGGGGGCTGATGGTGTCTCCCTAAGGACAGCATTTCAGTTTTCTTCTGC  
CCTTGTTTTTACCAGGCTGCTTGAGTTTGACAGCACCAACGTGTCCGATACGGCAGCAAAGCCTTTGGGAAGACC  
ATATCCTCCATACTCCTTGCCGATTTCTCTTGGAACAACATCACTGATTTCATTGGATCCTGCCACCCTGAGTGC  
CACATTTCAAGGCCACCCCATGAACGACCCTACCAGGACTTTTGCCAATGGCAGCCTGGCCTTCAGGGTCCAGGC  
CTTTTCCAGGTCCAGCCGACCAGCCCAACCCCTCGCCTCCTGCACACAGCAGACACCTGTCTAGCTAGAGGTGGC  
CCTGATTGGAGCCTCTCCCCGGGGAACCGTTCCCTGTTTGGGCTGGAGGTAGCCACATTGGGCCAGGGCCCTGA  
CTGCCCCCTCAATGCAGGAGCAGCACTCCATCGACGATGAATATGCACCGGCCGTCTTCCAGTTGGACCAGCTACT  
GTGGGGCTCCCTCCCATCAGGCTTTGCACAGTGGCGACCAGTGGCTTACTCCCAGAAGCCGGGGGGCCGAGAATC  
AGCCCTGCCCTGCCAAGCTTCCCTCTTCATCCTGCCTTAGCATACTCTCTTCCCCAGTCACCCATTGTCCGAGC  
CTTCTTTGGGTCCCAGAATAACTTCTGTGCCTTCAATCTGACGTTTCGGGGCTTCCACAGGCCCTGGCTATTGGGA  
CCAACACTACCTCAGCTGGTCGATGCTCCTGGGTGTGGGCTTCCCTCCAGTGGACGGCTTGTCCCCACTAGTCCT  
GGGCATCATGGCAGTGGCCCTGGGTGCCCCAGGGCTCATGCTGCTAGGGGGCGGCTTGGTTCGTCTGCTGCACCA  
CAAGAAGTACTCAGAGTACCAGTCCATAAATTAAGGCCCGCTCTCTGGAGGGAAGGACATTACTGAACCTGTCTT  
GCTGTGCCTCGAACTCTGGAGGTGGAGCATCAAGTTCAGCCGGCCCTTCACTCCCCATCTTGCTTTTCTG  
TGGAACTCAGAGGCCAGCCTCGACTTCCTGGAGACCCCCAGGTGGGGCTTCCCTCATACTTTGTTGGGGGACTT  
TGGAGGCGGGCAGGGGACAGGGCTATTGATAAGGTCCCCTTGGTGTTCCTTCTTGCATCTCCACACATTTCCCT  
TGGATGGGACTTGCAGGCCTAAATGAGAGGCATTCTGACTGGTTGGCTGCCCTGGAAGGCAAGAAAATAGATTTA  
TTTTTTTTC

18/5332  
**FIGURE 18**

[illegible]



19/5332  
**FIGURE 19A**

GTCGCGGGCAGCCGCTCACAGCGATGGCGGCCGAGCAGGGCCGGTGGCGGCCGGCTGCGGGCTACGGCCGGAG  
ACGGCAGTGTGGCGGTAGTGGTGGTGGCAGGGGCCTGTGACCGGGAGCTGCCCCGGACCCGGGCACCATGAG  
CCAAGCCCCCCCCACAGGGGAGAGCAGCGAGCCCGAAGCAAAAGTCCTCCACACTAAGCGGCTTTACCGGGCTGT  
GGTGGAGGCTGTGCATCGACTTGACCTCATCCTTTGCAACAAAAGTCTTATCAAGAAGTATTCAAACCAGAAAA  
CATTAGCCTGAGGAACAAGCTGCGTGAGCTCTGCGTCAAGCTTATGTTCTGCACCCAGTGGACTATGGGAGAAA  
GGCTGAGGAGCTGCTGTGGAGAAAGGTATACTATGAAGTTATCCAGCTTATCAAGACTAACAAAAAGCACATCCA  
CAGCCGGAGCACTTTGGAATGTGCCTACAGGACGCACCTGGTTGCTGGTATTGGCTTCTACCAGCATCTCCTTCT  
CTATATCCAGTCCCACTACCAGCTGGAAGTGCAGTGTGCATCGACTGGACCCATGTCACTGACCCCTCATAGG  
ATGCAAGAAGCCAGTGTCTGCCTCAGGGAAGGAGATGGATTGGGCACAGATGGCATGTACCGATGTCTGGTGTA  
TCTGGGGGATTTGTCCCGATATCAGAATGAATTAGCTGGCGTAGATACCGAGCTGCTAGCCGAGAGATTTTACTA  
CCAAGCCCTGTCTAGTAGCTCCTCAGATTGGAATGCCCTTCAATCAGCTGGGCACCCCTGGCAGGCAGCAAGTACTA  
TAATGTGGAAGCCATGTATTGCTACCTGCGCTGCATCCAGTCAGAAGTGTCTTTGAGGGAGCCTATGGGAACCT  
CAAGCGGCTGTATGACAAGGCAGCCAAAATGTACCACCAACTGAAGAAGTGTGAGACTCGGAAACTGTCTCCTGG  
CAAAAAGCGATGTAAAGACATTAAAAGGTTGCTAGTGAACCTTTATGTATCTGCAAAGCCTCCTACAGCCAAAAG  
CAGTCCCGTGGACTCAGAGCTGACCTCACTTTGCCAGTCAGTCTGGAGGACTTCAACCTCTGCCTCTTCTACCT  
GCCCTCCTCACCCAACCTCAGCTGGCCAGTGAGGATGAGGAGGAGTATGAGAGTGGATATGCTTTTCTCCCGGA  
CCTTCTCATCTTTCAAATGGTCATCATCTGCCTTATGTGTGTGCACAGCTTGGAGAGAGCAGGATCCAAGCAGTA  
CAGTGCAGCCATTGCCTTACCCCTGGCCCTCTTTTCCACCTCGTCAATCATGTCAACATACGGCTGCAGGCTGA  
GCTGGAAGAGGGCGAGAATCCCGTCCCGGCATTCCAGAGTGATGGCACAGATGAACCAGAGTCCAAGGAACCTGT  
GGAGAAAGAGGAGGAGCCAGATCCTGAGCCTCCTCTGTAAACACCCCAAGTGGGTGAGGGCAGAAAGAGCCGTAA  
GTTCTCTCGCTCTCCTGTCTCCGCCGTGCGCCGCCACCCACCCAAAGTTGGTGATGACAGTGACCTGAGTGAAGG  
CTTTGAATCGGACTCAAGCCATGACTCAGCCCGGGCCAGTGAGGGCTCAGACAGTGGCTCTGACAAGAGTCTTGA  
AGGTGGGGGAACGGCCTTTGATGCTGAAACAGACTCGGAAATGAATAGCCAGGAGTCCCGATCAGACTTGGAGA  
TATGGAGGAAGAGGAGGGGACACGGTCACCAACCCTGGAGCCCCCTCGGGGCAGATCAGAGGCTCCCGATTCCCT  
CAATGGCCCACTGGGCCCCAGTGAGGCTAGCATTGCCAGCAATCTACAAGCCATGTCCACCCAGATGTTCCAGAC  
TAAGCGCTGCTTCCGACTGGCCCCCACCTTTAGCAACCTGCTCCTCCAGCCCACCACCAACCCTCATACCTCGGC  
CAGCCACAGGCCTTGCGTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCTGAGTCGGA  
GGGGAGTGAGTCCAGTGACGCTCCTGTGGAATGAGCGCAGCATCCAGGAGAAGCTTCAGGTCTGATGGCCGA  
AGGTCTGCTTCTGCTGTGAAAGTCTTCTGGACTGGCTTCGGACCAACCCCGACCTCATCATCGTGTGTGCGCA  
GAGCTCTCAAAGTCTGTGGAACCGCCTGTCTGTGTTGCTGAATCTGTTGCCTGCTGCTGGTGAAGTCCAGGAGTC  
TGGCCTGGCCTTGTGTCCTGAGGTCCAAGATCTTCTTGAAGGTTGTGAAGTGCCTGACCTCCCCTCTAGCCTTCT  
GCTCCCAGAGGACATGGCTCTTCGTAACTGCCCGCGCTCCGAGCTGCCACAGACGCTTTAACTTTGACACGGA  
TCGGCCCTGCTCAGCACCTTAGAGGAGTCAGTGGTGCATCTGCTGCATCCGCAGCTTTGGTCAATTCATCGC  
CCGCTGCAAGGCAGCATCCTGCAGTTCAACCCAGAGGTTGGCATCTTCGTGAGCATTGCCAGTCTGAGCAGGA  
GAGCCTGCTGCAGCAGGCCCAGGCACAGTTCCGAATGGCACAGGAGGAAGCTCGTCGGAACAGGCTCATGAGAGA  
CATGGCTCAGCTACGACTTCAGCTCGAAGTGTCTCAGCTGGAGGGCAGCCTGCAGCAGCCCAAGGCCAGTCAGC  
CATGTCTCCCTACCTCGTCCCTGACACCCAGGCCCTCTGCCACCATCTCCCTGTATCCGCCAAGTGGCCACCAG  
TGGCCGCTTCATTGTTCATCATCCAAGGACAGTGATCGATGGCCTGGATTGCTGAAGAAGGAACCCAGGGGC  
CCGGATGGGATTCCGGTACCTGGAGGCAGAGTTTAAAAAGGAAACAGGTACATTCCGTGCCAGAAAGAGGTGGG  
AAAGAGCTTTGAGCGGCATAAGCTGAAGAGGACAGGATGCAGATGCCTGGACTCTCTATAAGATCCTAGACAGCTG  
CAACAGCTGACTCTGGCCAGGGGGCAGGTGAGGAGGATCCGAGTGGCATGGTGACCATCATCACAGGCCTTCC  
ACTGGACAACCCAGCGTGCTTTTACGGCCCCATGCAGGCAGCCCTGCAGGCCGCTGCCACGCCAGTGTGGACAT  
CAAGAATGTTCTGGACTTCTACAAGCAGTGGAAGGAAATTGGTTGATACTGACCCCCAGGCCCTGCAGTGGGGCT  
GACTCCAGATCTCTCCTGCCCTCCCTGGCAGCCAGGACCAGCACCTGTAGTACCCACCACACGCAGACTCATG  
CACGCACACAGGAGGGAGGCCTAGCTGCTCAGAGGCTGCAGGGAGGGCCAGGAGCCGGCTGGGAGGGTGGGGTC  
CCTTTGTTGCCAAGACGTTAGGAAAGCGAGGAAAGTGCTTGGATTAGGAGAGTCTTGTGGGGCCCTGGCCAGCCT  
TCCTGCCTCAGTCCCTGCTGTCTCCAGGGGCAGGTGGTAGGCATGGGTACCTGCATTTACTGGAATGGGTTC  
TTGGATCTCTGAGGGGAAGGAACAGCAAAAGAGGCCCTTCTTCTCACCCAAGATGCAGGTGGTTGGGGCCAGG

20/5332  
**FIGURE 19B**

AGTTTGGACCCTCTAGGTCTTGGGGGAAGAGCTGGGTAATACCTGGTGTCTGAGTGATTCTCTGCAGACCCTTCC  
CCTCCTCAAGGATCACCCATCCTCCTTTCAGCCCCCTTTATGGGGACCAGGCAGCTCTGGAGCCAGCCACAGGGG  
CTGTTAGAGAAGCAAGGCCTGGAGTGGCCTGCACCGAGTAGCAGGGTCAGGGTTCGTGTGCTCCTCCTCCTGCTG  
CAGGGGCTGCACATCCCATTGCCCCACTTCTGCTTTGTGTCTCCCTCTGTCTAGCTTCCAGGGCAGGGAGCAGGC  
CCCACCTAGGGCTGCAGGCAGTCTGGCCTGTGCCAGCACGGTCTCCTGTGCCCACCAGCCCCACAGGTGCTGTGC  
TTTGTGCTCTTGGCTGCTGTGCTGGGACAGAATGGGATGCCAGGAAGAGAAGAAAGGGGGTGCAGTCTGAGGCCA  
CCACCCCCCTTCCTATCTAAGGGAGGGCTGAAGACAAGGGGCCGGCATTTCAGTGGGCAGCAGAAAGGAGAGGCTC  
CTTGAAGCTGCTCAGTCAGAGGCCCCCGTCCCTCCTTTTGCCTTCCGCAGGACTGAAGACCTGAAGGGGCTGGCT  
TTTGGAGTGTTGAGGTGAATATCTGGGAGCAGAGATCATGAATAGCTCAGGGCAGTGAATGGCGCACCAAGAGCA  
GGGCTGTGTGTGGGAGGCTGCAGCCAGGATTGCCTCAGCTCCTCCCCCTCAGGCTGGGAGGATAGCACAGGCTAG  
GGGCTCGGGGTGGAGGGTCTCAGCTCTGCTGCCCCACCCAGTACTAGCCTAGCTTCCCAAGCTGTGGCTTAGA  
GGATAGTTGGCTTCCTGCCTCTCTCCTCTAAAATAGCAAGTCTGGGAAATCCTGGGGTGAGTGGAGTCACCCAC  
TCCAGTTGCTGGCAGAGACTGAGACTAAAGCATCACTTAATAAACCCCCCAAGCCC

21/5332  
**FIGURE 20**

ACTCCCCGCCAGGCCTGGCCCCGCTGCCTGGCCACTCTTCTCCATCAGCCTGGCTGGCAGCAGCCTTGGACTC  
CGCCCGTGGAGCCCTGGGCCTGTTGACCCACCAGCTTAGGAGCACCCACCAAGCTCTGGGTGTTCTGGGAAGATG  
GCATCATGTCTGGCTACCGCCGCCCCACCAGCTCGGCTTTGGACTGTGTCTCAGCTCCTTCCAGATGACCAACG  
AGACGGTCAACATCTGGACTCACTTCCTGCCCACCTGGTACTTCCTGTGGCGGCTCCTGGCGCTGGCGGGCGGCC  
CCGGCTTCCGTGCGGAGCCGTACCACTGGCCGCTGCTGGTCTTCCTGCTGCCCGCCTGCCTCTACCCCTTCGCGT  
CGTGCTGCGCGCACACCTTCAGCTCCATGTGCCCCGCATGCGCCACATCTGCTACTTCCTCGACTACGGCGCGC  
TCAGCCTCTACAGTCTGGGCTGCGCCTTCCCCTATGCGCCTACTCCATGCCGGCCTCCTGGCTGCACGGCCACC  
TGCACCAGTTCTTTGTGCTGCGCGCACTCAACTCCTTCCTGTGCACCGGCCTCTCCTGCTACTCCCGTTTCC  
TGGAGCTGGAAAGCCCTGGGCTCAGTAAGGTCTCCGCACAGGAGCCTTCGCCTATCCATTCTGTTGACAACC  
TCCCACTCTTTTATCGGCTCGGGCTGTGCTGGGGCAGGGGCCACGGCTGTGGGCAGGAGGCCCTGAGCACCAGCC  
ATGGCTACCATCTCTTCTGCGCGCTGCTCACTGGCTTCCTCTTCGCCTCCACCTGCCTGAAAGGCTGGCACCAG  
GACGCTTTGATTACATCGGCCACAGCCACCAGTTATTCCACATCTGTGCAGTGCTGGGACCCACTTCCAGCTGG  
AGGCAGTGCTGGCTGATATGGGATCACGCAGAGCCTGGCTGGCCACACAGGAACCTGCCCTGGGCCTGGCAGGCA  
CAGTGGCCACACTGGTCTTGGCTGCAGCTGGGAACCTACTCATTATTGCTGCTTTCACAGCCACCCTGCTTCGGG  
CCCCCAGTACATGCCCTCTGCTGCAGGGTGGCCCACTGGAGGGGGGTACCCAGGCCAAACAACAGTGAGGGCCCCA  
TCCCTGACCCTGTCTGAGGGGGCAGAGGCCAGGCCCCAGTGCTGACGAGGAGGCCAGATTTGGGCCTAATCAG  
GTGGGGACGCATCTCAGCCTGGAACCAACAGGGGCTGAGGAGAGAGGGGCACAGGAGAGAGGGCAGAGAAGAGGAG  
GGGTGTCTAGGGGGACTGGCAGAGTGTGAGAGGGACCGTGAGGGGGCTCTTGATGGGAGTGGAAGAAGTGCTGAG  
GGTCTGAGAGGGGAGATGCATGCGTGTCCAGGCTGAAGATGCCCCATATTTCTGTCAAAGGTTGGCGGGGGGAGG  
TGTTGGGGTCTTTTATCTGGCTCCGTTTCTGGTGCTTCTGGAAGTCTCTGCTCAGCACAGGGAAGAATAACAC  
GACTAACCTAGGCCTACCCTGAATGCTTCTTGCTAACAGGCCGAGAGGCCACACACTTGCCCCCCCATCCCCAC  
AAACCAGGTAATGCCAGTTTGCCAGCAGCTATTTGCCTATAGAGATGAGTCTGTCTGGTCATAACTGTGTGCTC  
AAGGTGTCCAGGCTTTTGGGGGTGGGCCTATCTGGGTGCATTATGGATGGTTTGGTGGATTGAGGTGTGGGGAGG  
AGGGTCTTAGGCTAGAGGGGTATCCCTAGTTAGACTTTGGGAAGCCACCTTCAACGTTTTCTGGAACAAGGCAG  
GTACAAATAAAAAATAAACTTTGGAAAGC

22/5332  
**FIGURE 21**

GCAAGTAGCGCCAATCTAGGCAGCGGCTGTGAGGAAAAAAGGCATGAGGGGTCGTCTTCGGAATCTGTGCCACCC  
GGCACTACCATTTTCGAGGGTGAAGCTCCTCGACACCATGGTGGACACTTTTCTTCAGAAGCTGGTCGCCGCCGGC  
AGCTACCAGAGATTCACTGACTGCTATAAGTGCTTCTACCAGTTGCAGCCTGCGATGACACAGCAAATCTATGAC  
AAGTTTATAGCTCAGTTGCAGACATCTATCCGGGAGGAAATCTCTGACATCAAAGAGGAGGGGAACCTAGAAGCT  
GTCTTGAATGCCTTGGATAAAATTGTGGAAGAAGGCAAAGTCCGCAAAGAGCCAGCCTGGCGCCCCAGCGGGATC  
CCAGAGAAGGATCTGCACAGTGTTATGGCACCTACTTCTGCAGCAACGGGACACCCTGCGGCGCCATGTGCAG  
AAACAGGAGGCCGAGAACCAGCAGCTGGCAGATGCCGTCTTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTA  
CAGGTCCAGGCCCAGCAGCAGGCCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTGCTGAGGGAG  
CCTGAGTGAAGGAGACCGCCAGCCCCAGAAGCAGAGGGCAGTCAAGGTCAAGAGCCTGTGGTCCAGCATGCCTGGC  
CTGGGCGGGCTACCTCTGAGAACGGCTGAAATGGTGCCAGTCCATCAGCAGTGATGGAATTTGCTGGAGGACTA  
GGCCAGAGCAAGCCTCACTGCCACTGTGCCTTTGGGGCACCTTGGGGTTGGACATACACCCCTTTAGATTCCCT  
CTGTTTCTTCTACCTGGATAATTCTTGGCCATGTTCTCTCTCTAGGTTCAAGGTCAGCTCTGCCCCCTCCGCCC  
CCCTCCTGCTGGTTCCCCAGCCCTTTCCCTGGCCCTGGCTTGGAGAATCTGTTTTCAATCTCCACTGATTGCCC  
CCTTGCTGGCCAGCCCAGGGGCCTTACCATGTTCTCTCCACATCCGTAAATAAACTTCCTTCACTAC

23/5332  
**FIGURE 22A**

AAACAAGAAGAATGGGATTGATATTTCCGCAGGAAGTTTGGAAGTTATGTAACAGAGCAGGTTGAGATCCTACCT  
TTTAGGAGCAGCCTGCCCTTTTGAAGGGGTAAAGGGAGTGGGTGCAGTGCCCTCTCTTCTGTTGTAGTGGCTTA  
TCCCTCTAAGGCATGACCCCTTGATAGGGGTACCTGCCTCGGAAAGTCCCACTTCCCTGTGGGAGTTTAAAAT  
AGATTGGCATATGTGAGAGATGGAGACAAGGTGGGAAATCGGATCCTGTCTTAGGATTTCTCATCAGGAGATGCT  
GATACTTGGTGTTCAGCTTGATAAATTGAGAAGGTGCCATGAAACCAGGTCCTGGAACAGAATCCCTGGTTGCT  
CTGTCTTTTAGCTGCTCTGACCCCTCTGCCCTGCAGAGCATGCATTTTGCATGTGCCTGGCAGGAGGCCCTCCTGC  
TTGAGCCCTGCTGTATTTGTCTGTGTTGACAACGTGACTGCCAGCCATTAAGCTTGGTCAGTCCACAGACACACT  
AGGAAAGCAGAGGCAGCTCTTGGTTTCTCTGGAACAGAGCTGCAAGAAGTCTCTGGGCATCTGCATGGCCAGGAG  
CTTATGCTTAACGTGTGAGTGACCTGCAGCCATAAGGGCATTAACTTCTGCCTTCCAGAGGTGGGAATGACTTGGC  
TTTAAACAGTGATTGTGTGAGAATTCTTCAAAATCCCATAAGGTAGAAGGCATGGTGGAGTAGAGGAGAAATCTT  
GGCTCATATCTGCCTCTTCCATTGACCAGCTGTGTGACCTTGGGCCTGTTACTTTTAACTACCTGACCCCTCCAT  
TTCTCATTTATCAGAAGTGTCTAACTGTACACAAGTTAACTGTAAGGATTACATGAGGTAGTAGTCAATCCTG  
GTGTTTCTCTGTATCTTCTCACTTCTCACTGGTGTGGAAATATGATCTTGCGACCCCTAGATGGCAGCCACTCTG  
GGGCAGAAGAGACAGTGACCACCTTTTGAAGAGCTCAAAGGAGAATATTGCCCCACAGGGCTTAGTGGGTCCCCC  
AGGCTGAGGCTGGGGAGGAGGGCCACCTTTGCCCTACAGCAAGTGGCATATCATTGTTCTAGGGGTCTCTTGACG  
GCAGAACTTTGCCTCTAGCTCATTTTCCACAGCCTAGATTTTCCAATCTTGCCAATCCAGTTGACTTCTGTCTTC  
TCATTTCCAAGCCATTGTTCTCTCTCTTTCACTATCTACATGGATTATCCTTCATTCAAACCTGCTTTGTCCCGGC  
TGGGTGCGGTGGCTCATGCCTGTAATCCTAGCACTTTGGGAAGCCGAGGCGGGTGGATCACGAGGTCAGGAGATC  
GAGACCATCCTGGCTAACATGGTGAACCCCGTCTCTACTAAATTAAAAAAATTAGCCGGGCGTGGTGGCAGGC  
GCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGGAGGTGGAGCTTGCAGTGGGT  
GGAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTGAAAAAAAAAACAAAAACTGCT  
TTGTCTGTAGGAATCCTGTGCGGGTTATGTGCACCTCCCTCAATCCTTACCTTGAAGCTAAGGTTTCCCTCAG  
CTCTCAAGTACTCAGTTTGCAGTGCAGGTAGTCCCTATTTTAACGAAAGTTATACGGTCCAGCTCAGGGAATCCT  
GAAAAGCTGCCCTTGCTTCCATGGTAATCAAAAGGCAGTTCTCATGGAATAAAAGCTACCTGAAGCCTGAGTTGG  
GACCTTTGGCTGGGGAAGGTGGTTGAGGACGTTCTCTGATTAGATGCTTGGCATGAGGTTTGCTACTGGAAGTGC  
TAGTGTAGAATGTTTCAGCCCCCTAGAGTTGTCCCTGTGATGTGGCTACCTCCTTTCTCTGGGATTTCTCTTAA  
GTCTGGGGAGCCCCTGCTTCTCATTTTCTGGAATTTATCTTCCAGTCTCCCTTTCTGGCTGAAAATTTCTAGTA  
TCTTACAGAACAGCGGTGGGATACACTGGAGCACATCATATTACCACTAAGTATGTCTAATAAATGATGTCTCT  
GATTTGACATTTTCTAAATGTGAAGCTCCTGATTTTATACAATTTTGAATTAGTAAGCTTGTTAGTTTTGTTTG  
AAATTTCTAGGCATTGGATACACTTAACATGAGGGCTACATGTGCATCAACATACTCTGGTTTCCCTTCCCTCTGTA  
TCTTTTTTTTTTTTTGAGATGGAGTCTCACTGTCTCCTAGGCTGGAGTGCAGTGGTGTGATCATGGCTCACTGCAG  
CCCCAACCTTCAGGGCTCAGGTGATCCTCCCACCTCAGCCACCCAAGTAGCTGGGACCACAGGTGCATGCCACCA  
TGCCCTGGCTAACTTATTTTTATATATTGTAGAGACGGAGTCTCCCTATGTTGCCCTAGGCTGACCTTGAGCTCTTG  
GGCTCAGGTGATCCTCCCACCTTGGCCTCCCAAAGTGTGGGATTATAGGCGTGAGCCACTGTGTCCAGCCTTTT  
CCTCTGTATCTTGTATCCATTCCCCAGAGCGATACTGTGTATCCTTGAACAGACGGTTTCTTGAAGTCAGAGTCT  
ATCTCCTCTGTCACTTCTCCCCCTTCATTATCTAAGACTGAGGTTGTGGTTTATATGCTTAGAGTTGAAAGCATG  
GGGTCCAACGTGTTCTGTACTCTGTAGTTCCCCAGACTCTTCAGGGAACCTACTTAGCTCTCAGGTGGTTCTTTT  
CTGTTTTTCTCAGAGCAAGTTATCTAATAACTGAAGAGGACTCTGCCCTTTGGCCTGTTCCCTGACTTTCTAACTC  
CTTTTGCTGGAGGAAGGGGAGGTTGAGGGGGGTGCCCTGTGGTGTGAAAGCCCCACTTGCCCTCTCCTCTATACT  
TTCTTCCAATGCAGACGGGAGAAAGTATCATAAATGTAGTGACTGTGGGTGAGGGGAGCTCTGAGAGGCCAGCAC  
AGGAAACCAGAAACAAAATGAGTCAGTTTCGTAGGTGGCGATCAGAGGCACCTGCTGAGGGTGCAAGGCCACAGG  
TGATGCCTCCTCAGTAGGCCAGGAGCATCAAAACGGGAACAGTCCCTTTAGCCTTCAGGAGCCTCCCAAATGT  
CACTTAGTGATGTCCATTACCTGCTTAAAGGCCCTGCATCCTGCCAGGTAGTTGGTTTGTCCATAGCATCCTG  
AGCTCTGCTTGGGTGAGCCAGACAAAAAGAAATGATTCTGGCCAGAGTAGTGATAACAGGGCCAGACAGAGGCA  
GAGAGTCCGGATAGAAGATCCTGTAAGCTGGGGTAGGGAGCCGAGGAGGCCATGGAGCCAGGGGAATCATTGAAG  
TGAGGGACAATTTCTGGAGGAGGGAACTGAGTAAGGAAGGCCTGGCCAAGGACCAAGAAGGGGACAGTATCCTG  
ATCTATGAAAGAAGACTCAAGTGGGGATTGACAGAGCCAGATTGGGTGGAGTCCAAGCTTTGGGCAGGTGAGTGT  
CCAGGAGATGAGGGCTGAGAATGGGCCTTCAGAGCCAGCCAGAAGGGGAAAGCACAAAGCTCCACCCTCCTTCT

24/5332

## FIGURE 22B

TCACATCCCTCCATACTGCTCAAATCCCAGGTCTTCAGGCACCATGGAGGACAAACGCAACATCCAGATCATCGA  
GTGGGAACACCTGGACAAGAAGAAGTTCTACGTGTTTGGTGTGGCAATGACAATGATGATCCGTGTCAGTGTCTA  
CCCATTACCCCTCATCCGCACCCGGTTGCAAGTTCAGAAGGGGAAGAGCCTCTACCATGGGACCTTCGATGCCTT  
CATCAAGATCCTGCGAGCAGATGGTATCACTGGCCTCTACCGAGGGTTCTGGTCAATACCTTCACCCCTCATCTC  
TGGCCAGTGTATGTACCACTTATGAGCTCACCCGGAAGTTGTAGCTGACTACAGCCAGAGTAACACAGTCAA  
ATCACTGGTGGCTGGTGGCTCAGCCTCCCTTGTGGCCCAGAGCATCACAGTGCCCATGATGTAGTCTCCCAGCA  
CCTGATGATGCAACGCAAGGGTGAGAAAATGGGGCCGCTTTCAGGTGCGGGGAACCCAGAGGGGACAAGGGGTAGT  
TGCCTTTGGCCAAACCAAGGACATCATCAGGCAGATCCTGCAGGCTGATGGACTTCGCGGCTTCTATCGAGGCTA  
TGTGGCTTCACTGCTTACCTATATCCCAAACAGTGCTGTCTGGTGGCCCTTCTATCACTTCTATGCAGAGCAGCT  
CTCCTACCTGTGTCTAAGGAGTGCCCTCACATTGTCTTCAAGCTGTCTCGGGGCCCTGGCTGCAGCCACTGC  
CTCCATCCTCACCAATCCCATGGATGTCATACGAACCCGTGTGCAGGTTGAGGGCAAGAATCCATCATCTGAC  
CTTCAGACAGCTGATGGCAGAAGAAGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCCAGAATCATCTCAGCCAC  
ACCTTCCACCATTTGCTATTGTGGTGGGCTATGAGAGCCTCAAGAACTCAGCCTCCGACCTGAGCTGGTGGACTC  
GAGACACTGGTAAACAGTGGTGGGGAGAGAAGCCTGTGTTTTCCACACTACCGTGGGTGAGGGGAGAGTGGAG  
AGGACAGCACCTCTCCAGGTGCTCCACACACACCCAGCCCTGCCCTGGGCCAAGTGGCCTATCTGGGATAGG  
GATAGAGACTTTGAACTGCTCTTGCTGAAGAGGCTCCACGCCTGGATCCCTTGCCCCACTATTTAAAATTTCTCT  
TCTGAGCTGGGCTCCCTCACTCAGTCCCTGTATTTGATACTGGCCTAAAGACCCACCCCCACCTGCCAGCCC  
TTCTTCTGGCTTCCCTTCCATCTGTGTCCCTGAGACCCTGAGAAGAGCTGTACATAGAGCTTGCTTACTACCAC  
TGGTTCTTCTCTTGGGCTTTCAGCCCAGACTCCAAGCAGCTGCTATCAACCCTCTCTCCCTTCATCTCTTAGCC  
TTGCTTATTTTTATTTTGGGACCGAGCTGCCCCACTAGATGACTCTGCTTTTCCCTGCATTTGGGGCTAAGGTGCC  
AGGTACTTATTTGCACAGGGAGCAGGAGCAGCAAAAAATCTCTGGTTCTCCAGAGCACTCGTCCCTCTCTTTGGAG  
GGGTATTAGGTTGGGAGAAATGTTGATACTTTTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
GTGTGTGTTTTAACATCTGTGAACCAGGCTATTAGTCCTGCTAAAGCGCCAATCCTGCTGTCAGAGCTCACCCCC  
TTCTAAGACAGGTAGAAAAATGTAATGTAGCTTTTTCCACAAGCCACTTCCCTGTCCCTTCAGTCTCAGGAGCC  
CTAGGAGAGTCTAAGCTGGGGCATCCCCTGGCCCAGAGGACTCCCGTGGTGGGCACAGTTCTAAGTGGATCAGGC  
TGTCTTGGGTGCACTGGACTTGGAGCACTACCTTGAGAAAGTCAGGTTGAGAAAGTAGTTGATCTAGAAGGCAACA  
AGTGGGCATGTGTTCCCCAGCACATTACCCAGGCCAGCAGAGCCAAACCTAGGAGAGGGCAGTGGGTAGATTCTC  
TGCCCCAGGCAGCCATGACATACATAAAATACCCAATCACTCAGACTTACGGCAACAAGTGTGTCTCACTAT  
GGTGATCTCTAAGATCCACATCACTGGATGCGTAGTCACTCCAGTCATGGTACCCTGTGGAGGAATGCTGGAAGA  
ACATAAAGAGCAGTTCAGAAAGTCACCCAATACCAGGACCACTGCATTTACCAGCCTGATACTGCCAAGATTATC  
TGATGCTCTCCTCAGGAGCTAGGAGAGGAGTGCTCCTTCCCTCCCTACCGCTACTCTCCCCAAGCCTGTGTTGCAG  
GTAGAGAGGTGCAGCAAATAGAGAAGGCATGTCAAACCTGCATTTCTACCTGAGACGTGTGACCTGGATGATCC  
TCCAAACCTATTGGTCCCACCCCTGGGAAAGGCCATGGTGCCAGTTTGAAAGGTGCTAGCTACCTGAAGCCTT  
GATATTTCTTCATGGCTGCCGCACATTCTTCCACCTTGGCCAGAACAGGTTCTGAAAACCACTTCTCTACCTTCA  
CCACCACCACTGCCATCTTGATCTCTTTGAGGGTTTTCCCATTTCACTTGATCTTATTTTTGTTTATCCCTTCC  
TGCATTTGTCAAGAGAGTCCCTCAGTTTTCTATCCAGGAATGTTTACATCCAAAGGGTTGGACCCACGGATCATT  
CTGAATCTTCTGCCCCCTCCTCACTGCTTAACCCTGAGAACCACAAATATAATGGAAGCAGTTCCCCCCACCCCTC  
ACCCCATCTCTTTAAGCTCATCTAGCAAGACCTCTAGAGACCCTAGAGACTCGACTTTAGTCTTCCCCGCCAT  
GGCAGAGTGGGGAAGGTGTCAATGGGGAGTGTACGGACAGGAGGTAGGATCCTGCCGCTCGCGTCTTAGTGTTT  
CTCCCTCAAGACTTTCTTCTGTTTTGTTGTCTTGTGCAAGTATTTTACAGCCCTCTTGTGTTTTTCTTTATTTT  
TCGTACACACACGCAGTTTTAAGGGTGATGTGTGTATAATTAAGGACCCCTTGGCCATACTTTCTTAATTCTT  
TAGGGACTGGGATTGGGTTTGAAGTAAATATGTTTTGGTGGGGATGGGACGGTGGACTTCCATTCTCCCTAACT  
GGAGTTTTGGTTCGTAATCAAACTAAAGAAACCTCTGGGAGACTGGAAACCTGATTGGAGCACTGAGGAACAA  
GGGAATGAAAAGGCAGACTCTCTGAACGTTTGATGAAATGGACTCTTGTGAAAATTAACAGTGAATATTTACTGT  
TGCACTGTACGAAGTCTCTGAAATGTAATTAAGTTTTTATTAGCCCCCG

25/5332  
**FIGURE 23**

CCCATGTTTGGTGGTACCAGGAAAGAGAGACTGATTATCTAGAGAACGCCTGAACACACCTGTAGGTGGGAGAGG  
AGAGATGAAAGATGAGGAAGTGGGTAAAGCGAGTGGGGATGCTGGAGGTCAGATGATTAGAGAACAGATCCCTGG  
CAGTGATGGGGGGAGAGATGTGCTGGTTAGTCTTGGTGGAAAGAGGGACCTGTGCCTTTGTGACAGAGGGTAGAGG  
AGGAAGGTGGTGTGGAGGTGTGGACAGAGCATTATCAGATACTGAGAGAGATGTGGCCAGGATGGGGGTGGATGC  
ACAGTCTTTCTATAAAATTTGTCTACCAACAGTTGAAGCCAACTGCTGCAGTGGGGAAGCAGGGCTGAATTGGAGT  
CACGAGAAGTGTGGGAGAGGTGTGGACAGCAACTGTGGGGGCCGAGCAGGGGAGTTAGTGATGGATGAGGTATC  
GCCTGTCTAGCAGAAGGATACAAGCTGAGCCTGGTCAACACCAACCTGTGGTTGGCCAAAAGGCAAAAGTTTGC  
AGCACCTTCTAGCAATGCTCAGAGTGGAGGAAAGTGCTGTGGGCTGGTTCTGGGTGGGCTGGTTCTGGGTGGGGA  
GCTGGCAGGGCAGAGGAGGTAGTCTGGAGTTGGAG

26/5332  
**FIGURE 24**

GATGAGCAAGTGGTGGGGACGCCCCCTGCTGGTGAAATCTGGCGTGGAGTATACACGGCTTGCAGTGGAGACAGCC  
CAGGGCCTTGATGGGCACAGCCATCTTGTCATGTACCTGGGAACCACCACAGGGTCGCTCCACAAGGCTGTGGTA  
AGTGGGGACAGCAGTGTCTCATCTGGTGGAAAGAGATTGAGCTGTTCCCTGACCCCTGAACCTGTTGCAACCTGCAG  
CTGGCCCCCACCAGGGTGCAGTGTGTTGTAGGCTTCTCAGGAGGTGTCTGGAGGGTGCCCCGAGCCAACTGTAGT  
GTCTATGAGAGCTGTGTGGACTGTGTCTTGCCCCGGGACCCCCACTGTGCCTGGGACCCCTGAGTCCCGAACCTGT  
TGCTCCTGTCTGCCCCCAACCTGAACTCCTGGAAAGCAGGACATGGAGCGGGGAACCCAGAGTGGGCATGTGCC  
AGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGAGCCGCCCCGAAATCATTAAAGAAGTCCCTGGCTGTCCCCAAC  
TCCATCCTGGAGCTCCCCCTGCCCCCACCTGTCAGCCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTC  
CCAGAAGCCTCTTCCACTGTCTACAATGGCTCCCTCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCAG  
TGCTGGGCAACTGAGAATGGCTTTTCATACCCTGTGATCTCCTACTGGGTGGACAGCCAGGACCAGACCCTGGCC  
CTGGATCCTGAACTGGCAGGCATCCCCCGGGAGCATGTGAAGGTCCCGTTGACCAGGGTCAGTGGTGGGGCCGCC  
CTGGCTGCCCAGCAGTCCTACTGGCCCCACTTTGTCACTGTCACTGTCTCTTTGCCTTAGTGTCTTCAGGAGCC  
CTCATCATCCTCGTGGCCTCCCCATTGAGAGCACTCCGGGCTCGGGGCAAGGTTGAGGGCTGTGAGACCCTGCGC  
CCTGGGGAGAAGGCCCCGTTAAGCAGAGAGCAACACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGAT  
GTGGACGCTGACAACAACCTGCCTAGGCACTGAGGTAGCTTAAACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGC  
ACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAGCCCTGACTAGGATGACAGCAGCACAAAAGACCACCTTTCTC  
CCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGGTGATGCACAGCAGTCTGCCTCCCCCT  
ATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCTACCCCCAGACCTGCTCCTACACTGA  
TATTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAGGGACCCCTCAGAAACACAGTGTTCAGAGA  
CCCTAAAAAACCTGCCTGTCCAGGACCCTATGGTAATGAACACCAAAACATCTAAACAATCATATGCTAACATGC  
CACTCCTGGAAACTCCACTCTGAAGCTGCCGCTTTGGACACCAACACTCCCTTCTCCCAGGGTCATGCAGGGATC  
TGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACCGCTGACTCCCAGGAAGTCTTTCCTGAAGTCTGACCACCTTT  
CTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCTTCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCTTC  
ACTCCTTTACCCTAGCTGACCCCTTCACCTCTCCCCCTCCCTTTTCTTTGTTTTGGGATTGAGAAAACCTGCTTG  
TCAGAGACTGTTTATTTTTTTATTAAAAATATAAGGCTT



27/5332  
**FIGURE 25**

ACTCAGTGTTTCGCGGGAGCGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCAGAT  
CCCCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCCTTCGA  
CCCGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCGCGGGCAGCGCTGCCAACCTGCCGGCCATGGAGACCCCGT  
CCCAGCGGCGCGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCGCCACCCGCATCACCCGGCTGC  
AGGAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAACCG  
AGAACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCG  
CCTACGAGGCCGAGCTCGGGGATGCCCGCAAGACCCCTTGACTCAGTAGCCAAGGAGCGCGCCCGCTGCAGCTGG  
AGCTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTG  
CTCAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGA  
AGCGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCA  
AGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAAGTGG  
ACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGGAGATTG  
ACAATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCAGGGCCAGCATGAGGACC  
AGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGA  
GGAACAGCAACCTGGTGGGGGCTGCCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCC  
AGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTG  
AGCGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGC  
AGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCT  
TGGAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCTCTC  
ACTCATCCCAGACACAGGGTGGGGGCGAGCGTCAACAAAAAGCGCAAACTGGAGTCCACTGAGAGCCGCAGCAGCT  
TCTCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGC  
GCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGA  
CTTACCGGTTCCACCAAGTTTACCCCTGAAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCA  
CCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTC  
TCATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGACTGTGGTTGAGGACGACGAGG  
ATGAGGATGGAGATGACCTGCTCCATCACCACCACGTGAGTGGTAGCCGCCGCTGAGGAGCCGAGCCTGCCTGGGG  
CCACCCAGCCAGGCCTGGGGGCGAGCCTCTCCCCAGCCTCCCGTGCCAAAAATCTTTTCATTAAAGAATGTTTTG  
GAACTTT

CGCGAGACGCCCCAGCCCCACCCGCCCCCAAGGGGGGAGAGCGCAAGCTCTGCGCTCTCTACAAAGAGGCC  
GAGCTGCGCCTGAAGGGCAGCAGCAACACCACGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATC  
GTGGGCAGGCAAGGCTGCAAGATTAAGGCCTTGAGGGCCAAGACCAACCTACATCAAGACACCGGTGAGGGGC  
GAGGAACCAGTGTTCATGGTGACAGGGGCGACGGGAGGACGTGGCCACAGCCCCGGCGGAAATCATCTCAGCAGCG  
GAGCACTTCTCCATGATCCGTGCCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCCGGC  
CAGGTGACCATCCGTGTGCGGGTGCCCTACCGCGTGGTGGGGCTGGTGGTGGGCCCCAAAGGGGGCAACCATCAAG  
CGCATCCAGCAGCAAACCAACACATACATTATCACACCAAGCCGTGACCGCGACCCCGTGTTCGAGATCACGGGT  
GCCCCAGGCAACGTGGAGCGTGC GCGC GAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAG  
TACAACAATGAAAACGACTTCTTGCGGGGAGCCCCGACGCAGCAATCGATAGCCGCTACTCCGACGCCTGGCGG  
GTGCACCAGCCCCGGCTGCAAGCCCCCTCTCCACCTTCCGGCAGAACAGCCTGGGCTGCATCGGCGAGTGCGGAGTG  
GACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGCGGGTACCTCTTTCCGGGC  
TATGGCGTGGGCAAGCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAAC  
GCCACGCCCACCTCCGTGCTCTTCTCCTCTGCCTCCTCCTCCTCCTCTTCCGCCAAGGCCCCGCGCTGGGCCC  
CCGGGCGCACACCGCTCCCCTGCCACTTCCGCGGGACCCGAGCTGGCCGGACTCCCAGGGCGCCCCCGGGAGAG  
CCGCTCCAGGGCTTCTCTAACTTGGTGGGGGCGGCTGCGGAGCCCCGGCGGGCGGGGATTGCATGGTCTGC  
TTTGAGAGCGAAGTGACTGCCGCCCTTGTGCCCTGCGGACACAACCTGTTCTGCATGGAGTGTGCAGTACGCATC  
TGCGAGAGGACGGACCCAGAGTGTCCCGTCTGCCACATCACAGCCACGCAAGCCATCCGAATATTCTCCTAAAGCC  
CCGTGCCCCATGCCTCCGGGGCCCACTCCACTGGGCCACCCCTGGACCTGTTTTTCCACTAAAGCCTTTTGAAAG  
CGGTGATTTGAGGGGCAAGGTGCTTAGAGATACTCGCTCGCTGGGGAAGGGGGGAGGGAGGCAGTGGTGGCTGGA  
GGGTGCGCCACTTTCAGAGCCTCTGGTCAACCCTGTCTTGAAAGATTGGGAGGGGGCCAGACTGAAAATTTTACT  
AGAGTTACAACTCTGATACCTCAACACACCCTTAAATCTGGAAGCAGCTAAGAGAAACTTTTTGTTTTGCCAGAGG  
TGGCCACTAAGGCATTCTGACGCCCTCTGCCACCTCCCCCGCTGTGTGTCACTCCACCCCTTCTTCCGAGGAGG  
GGGTGGGTAAAAGGGAGAGGGAGAAATTACCACCTGTATCTAGAGGTGCTCTTTGCAATCCCTAAGCCCTCTGGTC  
CTGACCTCCGACCTCCCAGCTCTGTCTTGTCTTGTCTTTGTCTTTCTTCCCTTCCCCCTGCCCTGCCCTAC  
CAGCCCAGCTTTGGGGACACCATCCTTCTGGGGAGAAGTAGGGGGAGGAATATTTGGATGGTCCCTCCATTCTC  
TTCAGGCATCTGGAGGCCCTCTCCCCCACTCCTCCAAAGAAACATCTCAAATTATTGATGGAATGTATCCCCATT  
CTCAGTGAAAATGTGAGGAGGGGACTAATACTGGGGTAAAGGGTCAAACCCCCACCTTCATCACTATGGGCATTA  
TATTTAGGGAGTAGTTCTTGGGCTGGATTTTCTGGTTGTGGAAGTGGGGGCGCCAGAGTAGTGTGTCTGCTATTT  
AAAGGAGCAGGAAAGGGCGTGAGGCAGGAGGAGAGACTGGTGGAGGGAAGAGCTGCTCCTCCCATGCAGTGCCCCG  
ACTCCCTGCACCCCTCTCAACCTGACCTGAACCTTTATTGAATCCTTATTAGCTTGAATCCTTATTAGCTTGAAT  
CCTCCATGCAAATCATGGAGTCTGTGTCCACCTGATGTGGTTGAGGAGAAGCCAGGTCTTCAAAGAGGGGTCAG  
CCTGGGGCAAAGCAGGACTGGGGGGAGGTGGGCAGCAGGGCCTATTCTGAGAATCACATATTGTTACAGGCCTTG  
CACCCCTTTTGTCTGCTTCCCTCCTGCTCATTGGGGCTGCCACCAGCTCTCCACCCTCCTGGTTCGCTGGCCGG  
GCCAAGAGAGGATGGAGGGATGGGAGTCCCAGGAGATCCTTGTAATAGTGGGGTGGGACTGTTCTGAGTGATCA  
CCCAGCACTTAAAGCTCCAGAGTCCCATTCTTCTGGATGGAGCAGGTGGAGGTGCAGAGGGGATTTCTCCTC  
TCCTTCTCCTGTCTGAGAATTAACACCTCTCCACAGCCTTCCCTCCAGAACACCAGCCAGGGAGGGGTGGGGAA  
GGAGGTACAGCCAAGAAAACCTGCCCTGTGACGACTTCCCTCCTTCCCGCTATGTGAGCCATCCTGAGATGTCT  
GTACAATAGAAACCAAACAAATGGGCACCCTCGGTTGCCGGGGGGCAGGTGGGGAGGGGGGTGGGAAGAAGGGA  
TGTCTGTCTGTCTGCTCCCCCTCCCCCTCTCCACTCTTTACCCACAAAGGCAGAAAGACTGTTACACTAGGGGGCTCA  
GCAAATTCAATCCACCCCTTACCAATTGAGCCAAACCTAGAAACAAACACAAAAACCGAATAGTGAGAGACAAAA  
TAGAGGAGAGAAAGAGAGCATGAGAGGGAGCGAGACAGGCGACCAACACAGAGGAGAGAAAAACAAAAATAGC

29/5332  
**FIGURE 27**

CTCTGCTTCCTTACAGCACCCCCACCTGCCAGAGCTGATCCTCCCTAGGCCCTGCCTAACCTTGAGTTGGCCCCC  
AATCCCTCTGGCTGCAGAAGTCCCCTTACCCCCAATGAGAGGAGGGGCAGGACCAGATCTTTTGAGAGCTGAGGG  
TTGAGGGCATTGAGCCAACACACAGATTTGTGCGCTCTGTCCCCGAAGACACCTGCACCCTCCATGCGGAGCCAA  
GATGGGGAATGGAACTGAGGAAGATTATAACTTTGTCTTCAAGGTGGTGCTGATCGGCGAATCAGGTGTGGGGAA  
GACCAATCTACTCTCCCGATTACGCGCAATGAGTTCAGCCACGACAGCCGCACCACCATCGGGGTTGAGTTCTC  
CACCCGCACTGTGATGTTGGGCACCGCTGCTGTCAAGGCTCAGATCTGGGACACAGCTGGCCTGGAGCGGTACCG  
AGCCATCACCTCGGCGTACTATCGTGGTGCAAGTGGGGGCCCTCCTGGTGTTTGACCTAACCAAGCACCAGACCTA  
TGCTGTGGTGGAGCGATGGCTGAAGGAGCTCTATGACCATGCTGAAGCCACGATCGTCGTCATGCTCGTGGGTAA  
CAAAAGTGACCTCAGCCAGGCCCGGGAAGTGCCCACTGAGGAGGCCCGAATGTTGCTGAAAACAATGGACTGCT  
CTTCCTGGAGACCTCAGCCCTGGACTCTACCAATGTTGAGCTAGCCTTTGAGACTGTCCTGAAAGAAATCTTTGC  
GAAGGTGTCCAAGCAGAGACAGAACAGCATCCGGACCAATGCCATCACTCTGGGCAGTGCCAGGCTGGACAGGA  
GCCTGGCCCTGGGGAGAAGAGGGCCTGTTGCATCAGCCTCTAGACTTGCCAGCACCACCTGCCCCACTGGCTT  
TTTGGTGCCCTTGTCCTCACTTCAGCCCCAGGACCTTTCCTTGCCCTTTGGTTCCAGATATCAGACTGTTCCCT  
GTTACAGCACCTCAGGGTCTTAAGGTCTTCATGCCCTATCACAAATACCTCTTTTATCTGTCCACCCCTCACA  
GACTAGGACCCTCAAATAAAGCTGTTTTATATC

30/5332  
**FIGURE 28**

GGAAGCAGCGGGCAGCGGCCCCGCGGGAGGCACCTCGGAGATCTGGGTGCAAAAGCCCAGGGTTAGGAACCGTAGG  
CATGCTGCGCCCCAAGGCTTTGACCCAGGTGCTAAGCCAAGCCAACACTGGAGGCGTCCAGAGCACCTGCTGCT  
GAATAACGAGGGATCACTGCTGGCCTACTCTGGTTACGGGGACACTGACGCCCCGGGTCACCGCTGCCATAGCCAG  
TAACATCTGGGCCCGCTACGACCGGAACGGGAACCAAGCGTTTAATGAAGACAATCTCAAATTCATCCTCATGGA  
CTGCAATGGAGGGCCGTGTAGCCATCACCCGAGTGGCCAACCTTCTGCTGTGTATGTATGCCAAGGAGACCGTGGG  
CTTTGGAATGCTCAAGGCCAAGGCCCAGGCTTTGGTGCAGTACCTGGAGGAGCCCCCTACCCAAGTGGCGGCATC  
TAACGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAATGACCATTTGGAGGGGCGGGGCCTCCTAGAAGAACC  
TTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTTTCCAAGAATAAACTTCAACTCCTGT

31/5332  
FIGURE 29

GGAGGAGCCGGGCGGGCTGGCGGGCGGCCGGGTGGCGGCGGCGGCATGGCGGAGCCGAGCGGGCCGAGACGAGG  
CCCCCATTCGGGTACCGTCAAGACCCCCAAGGACAAGGAGGAAATTGTGATCTGCGATCGAGCCTCGGTCAAG  
GAGTTCAAAGAGGAAATCTCCCGGAGGTTTAAGGCTCAGCAGGATCAGCTGGTCCTGATCTTCGAGGCAAGATC  
CTCAAGGATGGGGACACACTGAACCAGCACGGAATCAAGGACGGGCTCACTGTCCATCTGGTCATCAAGACCCCT  
CAGAAGGCTCAAGATCCAGCTGCTGCCACTGCTTCTTCCCCCTCCACACCTGACCCTGCCTCAGCACCCCTCCACC  
ACGCCTGCTTCACCCGCCACCCCTGCCAGCCCTCCACCTCTGGCAGTGCCTCTTCAGATGCTGGCAGTGGAAAGC  
CGGAGGAGCAGTGGTGGGGGGCCCTCTCCGGGGGCTGGGGAGGGATCCCCCAGTGCTACTGCGTCCATACTCTCT  
GGCTTTGGGGGCATCCTGGGGCTGGGCAGCCTAGGCCTGGGCTCTGCCAACTTCATGGAGCTGCAGCAGCAGATG  
CAGCGGCAGCTGATGTCCAATCCTGAGATGCTGTACAGATCATGGAGAACCCCTGGTCCAGGATATGATGTCT  
AACCCTGATCTGATGCGTCACATGATTATGGCCAACCCCCAGATGCAGCAGTTGATGGAGCGGAACCCCTGAGATC  
AGCCACATGCTCAATAACCCCTGAACTCATGAGGCAGACAATGGAGCTTGCTCGGAATCCAGCCATGATGCAAGAG  
ATGATGCGGAACAGGACCGGGCCCTGAGCAACCTTGAGAGCATCCCTGGAGGGTATAATGCCCTCCGCCGCATG  
TACACGGACATCCAGGAGCCCATGTTCAAGTGTGCGCGGGAACAGTTTGGCAACAATCCCTTCTCTTCCCTGGCC  
GGGAACTCCGACAGCTCATCTCCAGCCTCTGCGGACTGAGAATCGAGAGCCCCCTCCCTAACCCCTGGAGCCCC  
TCGCCCCCACCTCCAGGCCCCCGGGTCCGGTGGGGAGGGACCGGAGGATCGGGGACCAGCCAGGTGCACCCG  
ACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAGGGATGTTCAATAGCCAGAAATGCAAGCC  
CTCCTCCAGCAGATCTCTGAGAACCCCCAGCTGATGCAGAATGTGATCTCAGCACCCCTACATGCGCAGCATGATG  
CAGACGCTTGCCGAGAACCCCGACTTTGCTGCTCAGATGATGGTGAATGTGCCGCTCTTCGCGGGGAACCCCCAA  
CTGCAGGAGCAGCTCCGCTGCAGCTCCAGTCTTCTGTCAGCAGATGCAGAACCCAGAGTCACTCTCCATCCTT  
ACCAATCCCCGAGCCATGCAGGCATTGCTGCAGATCCAGCAGGGACTACAGACCTTGACAGCCGAGGCCCCCTGGG  
CTGGTACCCAGCCTTGCTCTCTTTGGGATATCCCGGACCCAGCACCCCTCAGCAGGCAGCAACGCAGGGTCTACG  
CCCGAGGCCCCCACTTCTCACCAGCCACGCCAGCCACATCTTCTCCAACAGGGGCTTCCAGCGCCCAGCAGCAA  
CTCATGCAGCAGATGATCCAGCTTTTGGCTGGAAGTGGAACTCACAGGTGCAGACGCCAGAAGTGAGATTTTCA  
CAGCAGCTGGAGCAGCTCAACTCCATGGGCTTCATCAATCGTGAGGCTAACCTGCAGGCCCTGATTGCCACAGGA  
GGGGACATCAACGCAGCTATCGAGAGACTGCTGGGCTCCAGCTCTCTTAATCCCTCGGCCCCATGCCTCCTGCCT  
CTCCCCCTCCCTCGATGTGAGCATTTCGGTTCTTCTGTCAATCCTTACCCTCTGCAGCTTGCTCCTCCCTTCCGTCTT  
CTCCCTCATCCTTTCCAAACAGCAGGGTGACTTTAGAGGCAAGGGCTCCAACCCCTTAGCTCTGTCTGAGAATTA  
TGGTTTTACTGCTACGTCTCTAACAGACTCTTCTCTCCTGGTCTCCTTGAGCAGTGCTACTTAAACAGTTTTTCA  
AGTTTCATTGATTGACTCTACCTCCTTGCCCCACACCCTTTTGCAATCTTTAACTTTCAGTGGCTGTGCAGAG  
TCGAGGGAGGAACCAGCTCTCTGGTTTACTGGAACATAGTCTTCCATCTATACCACTAGGGTTTTGTCTTATGTT  
TACTTTTGGTAACTCTCTTCTTCTTCTTCTCCCTACCCCCCAACCCCTAGCCCAACCAATGCTAGAATTTCTTG  
CTCTGAAGGAGGAGCAGGTGAAACAGGTGGTAATTTTCTTCTCGGCCCTATTCTGGTTTATTGACACTTTTT  
GGTGGGAACTGTTGGAATTTCCAGGGTAAGGAGGAAGATGCCTGTTCTCCCTGTCTGAAGAGGGAGATGAGACAG  
CTCTCTGGACAGGAATTAACAAACGCTGGAGCAGCCCAGAGGAAATTCGTGTGAAAGAGGGAGGAATGAGATTAT  
TCGGAGGAAGGGAATGGGGGAGACAGCCTGAGTAAAAGGCTTGGAAGTTGGAATTAACAGTGGGGAGCAGAAGCA  
CTCATAGCTCTTTTAGGCAGAAGAATCCAGGCCCGAGCTGGCAGAAGAGACTTAGAGATGCTAATGGAATTTAAA  
CTGAAAAAAGGAGCCCAATGAAGCTAAGCGCCACGCCCCACAAGGGGTGATATTGGCTTTAGTTCTCAAGCATA  
TGTGCTTATATGCACACACACACATTTCCATGGACCCAGGTCTTGCTTGTGTCCCCAGGCACCACTAGTTTGA  
GCCCCCTCAAAAGACATGAAGGGGGTTGGGGTCTGTGTGAGTAGTGGGGAGGTGCATGTGTATCCACATGTGTG  
CATACACTCTTAAGTTGGGTGGGAAGTGGATTCTTGTGTTTCTGGTTTCAGAGTGCTCTCCACCACCAGAGA  
CAAGTGGGTAAAAAGGTGAGTCCATTGCAGGAATATATATCCGGGAGAGCTAGGTCCCTTGGGGCTCTGGATGCT  
GGGTAACCCAGAGGTAATGTGGGTACCCCTTTCTGAAGCTGTCAGGGCTGTGACTAGCACCCCTTATACCCCTCAC  
TGCTTGTGGGAATAGTAGAGGGTTTTTTTTCTCCAGAGCCCCTGGCCTTTCAGTTCTTAACATTTCCCTCCAG  
GCCAGAAAGTTTTCTTTGAGGAAGGAGAGGAGAGGGTGGCAATGATGCCTTTGATCTGGAATGGACATTTCTCT  
GTCAGAGCACAGAGGAGGCTCATATCACCTCTTCCCTCTCTACTTGGCCAGCTGCTTGGAGGACCGACCCCAT  
GGCTGAGAATATGACGGCAAGAGGAACAGAGTTTGCTCCAAGTGGGAAAGGTCCCAAGCAGTCCAGAGAAGATG  
TCTGTGTGGCTTTCCCTCCCTGCCTCCCCAGCTCCACACTGGCCTTTGTAAATAAATGGCGTGGTCTTTGTTG  
TG

32/5332  
**FIGURE 30**

GCTCTCTTCCTGTCCTTTGTGGCTCCGGAAAGGCGTTTGGGATGCCAACGATGAGGCTGCTGTCATTTGTGGTGT  
GGCTCTATTTGCTGTCACTCAAGCAGAGGAAGGAGCCAGGCTTTTGGCTTCCAAATCACTGCTGAACAGATACGC  
CGTGGAGGGACGAGACCTGACCTTGACGTACAACATCTACAATGTTGGCTCAAGTGCTGCATTAGACGTGGAAC  
ATCTGATGATTCCCTCCCTCCAGAAGACTTTGGCATTGTGTCTGGAATGCTCAATGTCAAATGGGACCGGATTGC  
CCCTGCTAGCAATGTCTCCACACTGTGGTCCTGCGCCCTCTCAAGGCTGGTTATTTCAACTTCACCTCGGCAAC  
AATTACTTACCTGGCCCAGGAGGATGGGCGGTTGTGATTGGCTCTACCAGTGCACCTGGACAGGGAGGAATCCT  
GGCTCAGCGGGAGTTTGACAGGCGATTCTCCCCTCATTTTCTGGACTGGGCAGCCTTTGGGGTCATGACCCCTCC  
CTCCATCGGCATCCCCCTGCTATTGTGGTACTCCAGCAAGAGGAAATATGACACTCCCAAACGAAGAAGAACTG  
ATTGGGGCTTCCACAGCCCTCCTCTCCCAAGAAATCCAGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCAGACT  
CCAAAGGGTATCTTAAATGCAATCTCTTCTCTTAGCCCTTGGCCACTTCTCCTGGATCCTGCCCTGCTCTCA  
GCCATAGTGAAGGACCAGCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGTGAAGCCATAAACAGGAATGC  
CTTTGGCAATAGCCTTGAGCCTAGAGGGCCCTCTGATGCCCCACTGAGGTGCTGTTGGTTTTATTGCTGGCAACGT  
GAATTCTCTCAGGGGTCTAGGAGGGGCATTTTGGAGACTGCCTGACACCACCCCTATCCCCTGCCTCCCCCTCTC  
AGAAGAGGGTGGAAGATGAAATGAAAGCTATGGGACTCTTGGAGGATACCCAGTGTCTATTCTGGGTTAGAGAAG  
TGCTTACTAAGGGGTTTTCTAATAAAAACAAATGCCACATTG

GAGACCAACCGCTGCGGGCCGAACCCCTCCCCCGCCTTCCCCCAACAATACAGGACGCGGGGTCCGCGCCGCG  
TCCTCCCTGGTCCCCCGTCCGATTATGTCTCGGATCGAATCCCTACGCGGGCGCGGATCGACCGGAGCAGAGA  
GCTGGCGAGCAAGACCCGGGAAAAGGAGAAAATGAAGAAAGCCAAGGATGCCCGCTATACAAATGGGCACCTCTT  
CACCACCATTTCAGTTTCAGGCATGACCATGTGCTATGCCTGTAAACAAGAGCATCACAGCCAAGGAAGCCCTCAT  
CTGCCAACCTGCAATGTGACTATCCACAACCGCTGTAAAGACACCCTCGCCAATGTACCAAGGTCAAGCAGAA  
GCAACAGAAAGCGGCCCTGCTGAAGAACACACCGCCTTGCAAGTCCGTTTCTCTTTCGAAGTAAGACAACCATCCG  
GGAGCGGCCAAGCTCGGCCATCTACCCCTCCGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTC  
CTCCTTGCTTTAGCCAAGAGTGTTTCTACCACCAACATTGCTGGACATTTCAATGATGAGTCTCCCTGGGGCT  
GCGCCGATCCTCTACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCCTATCCGTGGAATCCCTCATTGA  
CGAAGAGGTAATCTACAGTGAGCTGATGAGTGACTTTGAGATGGATGAGAAGGACTTTGCAGCTGACTCTTGAG  
TCTTGCTGTGGACAGCAGCTTCTTGACGAGCATAAAAAGGAGGTGATGAAGCAGCAAGATGTCATCTATGAGCT  
AATCCAGACAGAGCTGCACCATGTGAGGACACTGAAGATCATGACCCGCTCTTCCGCACGGGGATGCTGGAAGA  
GCTACACTTGAGGCCAGGAGTGGTCCAGGGCCTGTTCCCTGCGTGGACGAGCTCAGTGACATCCATACAGCTT  
CCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACCTTTGTCATCCATCGCTT  
GGGTGATCTGCTCATCAGCCAGTTCTCAGGTCTAGTGCGGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAG  
CCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCCGAGACAAACGCTTCCAGCAATTCTACCGGAA  
AGTGACCCGCCCCGCCGTGCTCAAGCGGCACGGGGTACAGGAGTGCATCCTGCTGGTGACTCAGCGCATACCAA  
GTACCCGTTACTCATCAGCCGCATCCTGCAGCATTCCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGC  
ACTGGGGCTAGTGAAGGAGCTGCTGTCCAATGTGGACGAGGGTATTTATCAGCTGGAGAAAGGGGCCCGTCTGCA  
GGAGATCTACAACCGCATGGACCCCTCGGGCCCAAACCCAGTGCCTGGCAAGGGCCCCCTTTGGCCGAGAGGAACT  
TCTGAGGCGCAAACCTCATCCACGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGT  
GCTGCTGATGACAGATGTACTGGTGTCTTCTCCAGGAAAAGGACCAGAAGTACATCTTCTACCTGGACAAGCC  
TTCAGTGGTATCGCTGCAGAATCTAATCGTACGAGACATTGCCAACCCAGGAGAAAGGGATGTTTCTGATCAGCGC  
AGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCAATTCAGCA  
GAGCGTGCGCATATGCCATCCAGGGAGGACTTCCCCCTGATTGAGACAGAGGATGAGGCTTACCTGCGGCGAAT  
TAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTCGGGCTGTTTGCTGAGAT  
GACCCATTTCCAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCACCCTGCCAGGGGCCCTTTTCCGCTC  
TGAGTCCCTTGAGTCCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAGGTGGAGGGTCTGAAAGACCT  
GCTGGTGGGGCCAGGAGTGGAATGCTCTTGACACCCCGAGAGCCAGCCCTGCCCTTGGAACCAGACAGCGGTGG  
TAACACGAGTCTTGGGGTCACTGCCAATGGTGAGGCCAGAACCCTCAATGGCTCCATTGAACTCTGCAGAGCTGA  
CTCAGACTCTAGCCAGAGGGATCGAAATGGAAATCAGCTGAGATCACCGCAAGAGGAGGCGTTACAGCGATTGGT  
CAATCTCTATGGACTTCTACATGGCCTACAGGCAGCTGTGCCCAGCAGGACACTCTGATGGAAGCCCGGTTCCC  
TGAGGGCCCTGAGCGGCGGGAGAAGCTGTGCCGAGCCAACTCTCGGGATGGGGAGGCTGGCAGGGCTGGGGCTGC  
CCCTGTGGCCCCCTGAAAAGCAGGCCACGGAACCTGGCATTACTGCAGCGGCAACATGCGCTGCTGCAGGAGGAGCT  
ACGGCGCTGCCGGCGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAGAGTG  
GCAGGCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCCCTGGGCCAGACCGAGCC  
ACTCCCAGCTGAGGCCCCCTGGGCCCGCAGACCTGTGGATCCTCGGCGGCGCAGCCTCCCCGCAGGCGATGCCCT  
GTACTTGAGTTTCAACCCCCCACAGCCAGCCGAGGCACTGACCGCTGGATCTACCTGTCACTACTCGCTCTGT  
CCATCGAAACTTTGAGGACCGAGAGAGGCAGGAACTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGTGACCC  
TGACACTGGCAGCGAGGAGGAAGGTAGCAGCCGTCTGTCTCCGCCCCACAGTCCACGAGACTTTACCAGAATGCA  
GGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCTGTAGCCTCCGAGAGCTAAGGGGGCCCCCTCCCCCT  
GCCCCGTGCCCCACTGAAGAACATTACTGAGGGGGGCTAACCTTGGGGACTCCAATTTGCCAATGATGAGGGAACA  
TTTGAAAGAACTGCAAAATTGTCTTGGCAGCTCTTGGGATCCTTGGATACCTGGGGCCATTTAAGAAGCTAGGGG  
AATTAGGCCACAACACCCCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTTCATGCCTTCTTCCCGCA  
ACTTTAGGAAAATTTATTTATTTATTTATTTAGTTATGGGGGAGAGGGGAGATTTAAAGGACCAGGGACATG  
GGAACCAAGCATAGGGATCAGAGGGCCTTGTCTTGAACACTACTGGGGTATATTAGGCTCATCCACGCAGCT  
GCTGGGTTCTTGCCCTAACGGCCCTCCCCTGCAACATCCGTCTTGGAGGAGAGGCTGCAGCCACAGCACCCCTACT  
GCCCTTTAAATAAAGGAGGGCTGTGGGCAGGGCCATGTCCCTTTCTCCTCTCCCTCAACCTCTTACTGCTGTTT

34/5332  
**FIGURE 31B**

TCCCTTTCTCCGTCCTTCATGGAAGCCCTGGGAGATAACCTGGCTTCCTGGAGTTGATGGAATAAAGGTTGGGGT  
GGCCATAATGGTTTGTGGGGGTGAGGGAAAAAACCCACAGGGACCAGAATGTTTTGTTGTTCTTTTGTTCCTT  
TTTTGTACCAAAGTCAACTGCACGTGTTTTATATTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTAT  
CTCCACATCTCTGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTTCATCTGCAGTAACGGGGGGACCT  
ATACTGACCTCTTCCCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTGGGAAAATCTCCAAGAGCCCTGACCTCA  
TCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAATTTGGGGGATTTTTCAGTGGAACCCTTGCCCCCA  
AATGTCGACCAGCCCCCAAATGTCGAAGAATTTTCTTCTTGCCAATTTTGTTGTTAAAAAAAATTTCAGGGAA  
AATTAAAAACCTGGAACCTCA



35/5332  
**FIGURE 32A**

CGGGTGGTTGAGTAGAAGCGGTCGCCATGTCCGCGGGGAGCGCGACACATCCTGGAGCTGGCGGGCGCCGAGCA  
AATGGGACCAACCAGCTCCAGCCCCACTTCTCTCCCTCCCGCCAGCGGCCCCAGGTGGGGAGGTCACCAGCAGTG  
GGGGAAGTCCTGGGGGCACCACAGCTGCTCCTTCAGGAGCCTTGGATGCTGCTGCTGCTGTGGCTGCCAAGATTA  
ATGCCATGCTCATGGCAAAAGGAAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAG  
GCCTAACTAGCAATAAAAGCAAGGATGACCTGGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTCACATGTA  
GGAAGTTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGGGCTGCAGTATCAACTCGAGGGA  
GGTTCATGACAACTGAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATATCTTCATGTTTCAGGGCCAGA  
CACGGGAATTAGTGGACAGAGCTGTAAACCGGATCAAAGAAATTATCACCATGGAGTGGTAAAGCTGCCACAG  
GAACAAGTCCAACCTTTTAATGGTGCAACAGTAACCTGTCTATCACCAGCCAGCACCCATCGCTCAGTTGTCTCCAG  
CTGTTAGCCAGAAGCCTCCCTTCCAGTCAGGGATGCATTATGTTCAAGATAAAATTATTTGTGGGTCTAGAACATG  
CTGTACCCACTTTTTAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTGCTCCTATTTGCAGCACATTCAGATTGAAA  
CAGGTGCCAAAGTCTTCCCTGCGGGGCAAAGGTTTCAGGCTGCATTGAGCCAGCATCTGGCCGAGAAGCTTTTGAAC  
CTATGTATATTTACATCAGTCACCCCAAACCAGAAGGCCTGGCTGCTGCCAAGAAGCTTTGTGAGAATCTTTTGC  
AAACAGTTCATGCTGAATACTCTAGATTTGTGAATCAGATTAATACTGCTGTACCTTTACCAGGCTATACACAAC  
CCTCTGCTATAAGTAGTGTCCCTCCTCAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTTACCCTGTTG  
TTCCCCCTCCTCAGCAGCCAGTTCAACCTCCCTACGGAGTACCAAGCATAGTGCCACCAGCTGTTTCATTAGCAC  
CTGGAGTCTTGCCGGCATTACCTACTGGAGTCCCACCTGTGCCAACACAATACCCGATAACACAAGTGCAGCCTC  
CAGCTAGCACTGGACAGAGTCCGATGGGTGGTCTTTTATTCTGCTGCTCCTGTCAAAGTGCCTTGCCTGCTG  
GCCCCAGCCCCAGCCCCAGCCCCAGCCCCACTCCCAAGTCAGCCCCAGGCACAGAAGAGACGATTCACAGAGG  
AGCTACCAGATGAACGGGAATCTGGACTGCTTGGATACCAGCATGGACCCATTTCATATGACTAATTTAGGTACAG  
GCTTCTCCAGTCAGAATGAGATTGAAGGTGCAGGATCGAAGCCAGCAAGTTCTCAGGCAAAGAGAGAGAGAGGG  
ACAGGCAGTTGATGCCTCCACCAGCCTTTCCAGTGACTGGAATAAAAACAGAGTCCGATGAAAGGAATGGGTCTG  
GGACCTTAACAGGGAGCCATGGTGAGTGTGATATAGCTGGGGGAACAGGGGAGTGGCTAAGACTGGTCTTAAAGCT  
ATTAGTTTTCTCAGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCA  
CCTAAGGTTCAGGAGTTCAAGACCAGCTTGGCCAACATAGTGAAATCCCATCTCTACTAAAAATACAAAACTAGC  
GGGCATGGTGGTGGGCGCCTGTAATTCAGCTACTCAGGGGGTTGAGGCAGGAGAATCGCTTCAACCTGGGAGGC  
AGAGGTTGCAGTGAGCCAAGATCAGACCCTGCCCTCCAGCCTGGGCAATAGAGCAAGACTCCATCTCATAAATA  
AATAAATACATAAATAAAGCTATTAATTTTCTAACCTGATGTTTCATTTCAGGTGTTTAATCCAACCTCTATAATCT  
GTTGGCCAGTGAAAATACTTTTGGGCTGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGG  
TGGGCGGATAACCTGAGGTCAGGAGTTTGAGACCAGCGTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATA  
GAAAAATTAAGCTGGGCATGGTGGTGCATGCCTGTAATTCAGCGGCTTGGAAGGTGAGGCAGGAGAATCACTT  
GAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATCACACCACTGCATTCCAGCCTGGGCACTAGAGTGAGACTC  
TGCTCAAAAAAAGAAAGAGAAAGAGAAAAATAGTTTCTAAAAAATTGTATACAGACAACCTTTTATTTCCAAC  
AAACGTGTGCCGAGAGAGAGAGAGAGAAAAATAGTTTTAAAAAATTGTATACAGACAACCTTTTGTTCACCA  
ACGTGTATCTAGAAAAGAGTTAGTCGACTTATTTTATACATAGCATCAGTGAATAGTAATGAGTGGTAGGTCATT  
TCAAAATCCTGTTGCCTATATTATGTGAATACCAGGAGGTCATCTGATACGGACTTAATAAAGGTTGATTTTGCT  
TTATATTGGGAGCTGAGCCACACCTCCCTTATACTCTATTGGTCAGTAATGGTCAGTTTGTGGCTGTTAGGAA  
AATGTTGCCTTTTAGCATTCCAGAACTCTAAATCCTGTAGAGGTACATGGGATATTTTATTCTTTGCCTGTACTC  
ATAAAAATGAACAGAAGAAAATACGTTTTTTTCTTTTCTTAACTTCTTTTCTTTTAACTCTTTAAAGGTGAAAT  
ATCAGCCCCTCAAGAGACTCACTTGCTAACTTTCCTTTTTTTCTTTTTTTTTCTTTTTTGTGTTTCTTTTTTCTT  
TCTCTGTTTTCTTACATGGTTCTGGTGGATTACATTTGCTGATGCTGGTGTGTTTTTCGTGTGATCTTCAACG  
TTTTTGGGTGACCATTGACCCTGTGACCTCAAAATGGTGTCCAACCTAACCACTTAAATTAACATCTTTTTTTTA  
ATTAACGAATTTATGGTATTTTTTTTTTCCCTTGGCGGGGATGGGGTTGGGGTTGTTTTTCTCTATTCTAGAT  
TATCCAGCCAAGAAGATGAAAACCTACAGAGAAGGGATTTGGCTTGGTGGCTTATGCTGCAGATTTCATCTGATGAA  
GAGGAGGAACATGGAGGTACATAAAAATGCAAGTAGTTTTCCACAGGGCTGGAGTTTGGGATACCAATATCCTTCA  
TCACAACCACGAGCTAAACAACAGATGCCATTCTGGATGGCTCCCTAGGAAACAGTGGAACAGAGTTTGAACCT  
CAGTGACTCTTCTTAGCAATAATGCATGCATTTGATTTAAACAAGACTCTGGGGCCTGTGCTGGGAACCATCTGGA  
CCTTTCAGAAAGTTAGAGATTCAGTGCCCCCTTTCTTAAAGGGTTCTTAAACAACCACAAAAATCCTTATTTT

36/5332  
**FIGURE 32B**

TGCAGTGGCATAGAATCTGTAAAAATTTAATTAGAATCACAAATTTATCTCAGAAGCTTTTTAACAGTTGGTGAA  
ATGTGCTTGTCCAACAAAGCATCCTAACAGGGTCGTTCCCATACACATTTGACCTGGTCAGCCTTTTCCAGGTGA  
ATAGCCCCAGTTCTGACATAAAGAAAGTTTTATTTGTATTTTACTACTGTTTGGTCAATTTTGATATATAACTGG  
TTACAAACAGAGCCTTACTATTTATTAGTGGGGAAATGATTTTAAGACCGTCCTTTTCAGTATTTAATTCTGACA  
GATCTGCATCCCTGTTTTGTTTTGGATTATTTCTGTTTTGGAAAATGCTGTCTCATTAACTGTTGGATATAG  
CTGGATCCTGGATAGGAAAATGAAATTATTTTTTCATTGTGTTTTTAATTGGGGTGATCCAAAGCTGGCACCTT  
CAGGCACATTGGTCTCATAGCCATTACTGTTTTTATTGCCCTTCTAAGATCCTGTCTTCAGCTGGGTCAGAGAAA  
ACTTCTTGAATAAACTGGTCAGAACTCATCACAGAAATGAAATACAGTGGTCTCTCTCTCCAGAACTGGTTGC  
AGCTAAAACAGAGAGATCTGACTGCTGGCTATAGGATTTTGGACTTAATGACTGAAATTGCAAATTGTCCTTTTT  
CTTGGCATTACAGATTTTGCCAAAATACTTTTGTATCAAATATTGATGTGTGAAAGTGAAGGAGCTAGTCTGC  
TGAACCAGGAATAGTTTGAGATATTGAACTGTCATTTTTGCACATTTGAATACTTTGCAGGCTGGCTTTGTATAA  
ACTTATCCTCTGGTTTCCTATATGTTGTAAATATTTAGACCATAATTTTCATTATAAATAAATCTATAAATATTC

37/5332  
**FIGURE 33**

CAGGACCAGTCTGACTGCACCTGCATCCTTAGCTCAGCGCATCCCCGGAGCATCTTAAGAGCTGAGCGCAGCTGA  
CAACTAGGGGCCGGACCGTCGCAGGAGGCGTCCGCTGGATACCTTCCCCCTTCCCTGACCTAGAGCTCTACAGCT  
GCTGCCTCGGTACTGACCGAGGGTTCCAGAGCTGTCTCACCATTGCAAAAACGTTATAGCAACAGCCTCTGATT  
ACGACATGGCTGAGATCACCAATATCCGACCTAGCTTTGATGTGTACCCGGTGGTGGCCGGCCTCATCGGGCCT  
CTGTGCTGGTGGTGTGTGTCTCGGTGACCGTCTTTGTCTGGTCATGCTGCCACCAGCAGGCAGAGAAGAAGCAGA  
AGAACCACCATACAAGTTTATTCACATGCTCAAAGGCATCAGCATATACCCAGAGACCCTCAGCAACAAGAAGA  
AAATCATCAAAGTGCGGAGAGACAAAGATGGTCCTGGGAGGGAAGGTGGACGTAGGAACCTGTTGGTGGACGCAG  
CAGAGGCTGGCCTGCTAAGCCGAGACAAAGATCCCAGGGGGCCTAGCTCTGGATCTTGTATAGACCAATTACCCA  
TCAAAATGGACTATGGGGAAGAACTAAGGAGCCCTATTACAAGCCTGACCCCTGGGGAGAGCAAAACCACCTCTC  
CATCATCTCCAGAGGAGGATGTATGCTAGGATCCCTCACCTTCTCAGTGGACTATAACTTCCCGAAAAAGCCC  
TGGTGGTGACAATCCAGGAGGCCCATGGGCTGCCAGTGATGGATGACCAGACCCAGGGATCTGACCCCTACATCA  
AAATGACCATCCTTCCCTGACAAACGGCATCGGGTGAAGACCAGAGTGCTGCGGAAGACCCTGGACCCTGTGTTTG  
ACGAGACCTTACCTTCTATGGCATCCCCCTACAGCCAGCTGCAGGACCTGGTGTGCACTTCCCTTGTCTCAGCT  
TTGACCGCTTCTCTCGGGATGATGTCAATTGGCGAGGTCAATGGTGCCACTGGCAGGGGTGGACCCACAGCAGGCA  
AGGTACAACCTGACCAGGGACATCATCAAAAGGAATATCCAGAAGTGCATCAGCAGAGGGGAGCTCCAGGTGTCTC  
TGTCATATCAGCCTGTGGCACAGAGAATGACAGTGGTGGTCTCAAAGCCAGACACTTGCCGAAGATGGATATCA  
CCGGTCTCTCAGGTAATCCTTATGTCAAGGTGAACGTCTACTACGGCAGAAAGCGCATTGCCAAGAAGAAAACCC  
ATGTGAAGAAGTGCACTTTGAACCCCATCTTCAATGAATCTTTCATCTACGACATCCCCACTGACCTCCTGCCTG  
ATATCAGCATCGAGTTCCCTCGTTATCGACTTCGATCGCACCACCAAGAATGAGGTGGTGGGAGGCTGATCCTGG  
GGGCACACAGTGTACAGCCAGTGGTGCTGAACACTGGAGAGAGGTCTGCGAGAGCCCCCGCAAGCCTGTGGCCA  
AGTGGCACAGTCTGAGCGAGTACTAATCCTGTTCTTCTCTCTCTAATCCCCGGGGGCCAAGCTGGGGAGGGATG  
TGGAGGGGAAAAAGATGACAGAGAAGTGGACTCCAAACCTCATTTTAGTTGTAGAAGAAAATTTCTTACAAAACA  
AATTCCACAAAGAACACCCTATATGACCACAGCTGCAGATCAGTTCTTAGCAATGATGTTTTTTTTTCTGCTTTG  
CAAGGCGCTAGAATCTTTTATTTTACTTTATTTTTTTTTTGGAGTGGAGTTTCGCTCTTGTGCCCCGGGCTGGAGTG  
CAATGGTGAGATCTCAACTCACTGCAACCTCTGCCCTCCAGGTTCAAGTGATTCTCCTCCCTCAGCCTCCCAAGT  
AGCTGGGATTACAGGCACCCACGAGCATGCCCGGCTAATTTTTTGTATTTTTCAGTAGAGATGGGTTTACCATGT  
TGGCCAGGCTGGTCTCGAATTCCAGACCTCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGG  
TGCGAGCCACCGTGCCCGGCTCTGGTTTTGTTTTGTTTTTTTTTTAATGGGGGACAAAAGAGAGGGAAAGAC  
CCCTATAAATCTATATATAACAATGTAACCATATACTTGCATGTCTAATACAAACTGAAGAAATTAGCCTAACTG  
CCAATATCAAGTTGCAGATTTTAAATCCATGGAAATTGTGTTTTGTGCTGAATTGTATTTGCTGATTACCTGAAAT  
TGGCTTCTTTTTTATTGGGCTTCTCTGGAGAATTTCTCCCACTCCCACCTCTGCAGAAGAAAATTTTGCTCTTAT  
AAAACCTCATGTTTTTCATCATTCCCATCTTTTCTTTTTTATTGCCTCTTATATCTCTGCTTTTGACCTCAAGGTC  
TAGAGGTCTGCAGTAAGCCAAGAAACAAAGGTGGGTGGATGAGGCAAGGTTGCAGGAGAAAGAGGAATTGAGA  
AATGGGGTATTTTTGCTATCAGCTCTTCTGCTATGAAGTAGTAAAGGCAGTCTATAATTAAGTACAGACCTAA  
CTGAAGCACAGAGAATACATCAGACTTATGCATCCAAGACATCAGAACTTGGATTTATCAAACCTTGATGACTTC  
TCTAAAAGGAGCTTTGGAACTTCAAATTCAGCTATAGGATAGTACCAATGAACACATCCAGCTGATCCCAAAG  
CTGTTTTTCAGGTATAAGGACAAGGAGAGGAGACAAGTGACGACAGCCATTCCCCCTTGACAGCTATCTACTGTAGT  
GACAGCCATTTCTTGGTTGATGGGTGGGAAGTCATCAGAGTTTGAAGAATTAACTGGCCTTTGTTTTTCTGGA  
AATGCCGACCATGGAGATGCTTTAGAGTCTTCTCAAATAGCTTAGATGTTGTAATGAGGTTAGCTTTGCTTCATA  
AAACAGGGGGCCCTCAGAAGTTCTCCTTAAATTTTTTCAATAAAAATTTAGCTCTT

38/5332  
**FIGURE 34**

AGAAATCTTCAGCCAAACAGCTGCAGGAAGTAGAGAAGGTTAAACCCCAGAGTGAGAAAGTTCATCAGACTCTGA  
TTCTGGACCCAGCACAGAGGAAGAGACTCCAGCAGCAGATGCAGCAGCACGTTTCAGCTCTTGACCCAAATCCACC  
TTCTTGCCACCTGCAACCCCAACCTCAATCCGGAGGCCACTACCACCAGGATATTTCTTAAAGAGCTGGGAACCT  
TTGCTCAAAGCTCCATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCCCTGTAACCTTGA  
TGGGAGCTATGCAGCTGATTGAAGACTTCAGCACACATGTCAGCATTGACTGCAGCCCTCATAAAACTGTCAAGA  
AGACTGCGAATGAATTTCCCTGTTTGCCAAAGCAAGTGGCTTGGATTCTGGCCACAAGCAAGGTTTTCATGTATC  
CAGAGTTACTTCCAGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCGTCTTCACCAAGGCTGAGGACA  
ATTTGTTAGCTTTAGGACTGAAGCATTTTGAAGGAACTGAGTTTCCTAATCCTCTAATCAGCAAGTACCTTCTAA  
CCTGCAAAACTGCCACCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTAA  
AATTTTATAAGAAGACCAACAGCTGCCAGTCTTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGC  
CACCTATAGAGAGAGAAGAACCAGGCTCCCATTTCTGGTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGCTGC  
GGCACATGGCTGATGGTGCTAGAGAGGTAGGAAAATATGACTGGAACCACTGAGATCAACTCAGATCGAAGCCTAG  
AAAAAGACAATTTGGAGTTGGGGAGTGAATCTCGGTACCCACTGCTATTGCCTAAGGGTGTAGTCTGAAACTGA  
AGCCAGTTGCCACCCGTTTCCCCAGGAAGGCTTGGAGACAGAAGCGTTTCATCAGTCCTGAAGCCCCCTCCTTATCC  
AACCCAGCCCCCTCTCTCCAGCCCAGCTTCAACCCCTGGGAAAACACCAGCCCGATCAACTCATTTCAGAAGCCCCCTC  
CGAGCAAAATGGTGCTCCGGATTCTCACCCTACCAATACAGCCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTC  
CACTGGGGGTGAGTGGAGGTGAGAGTTTTGAGTCTCCTGCAGCACTGCCTGCTGTGCCCCCTGAGGCCAGGACAA  
GCTTCCCTCTGTCTGAGTCCCAGACTTTGCTCTCTTCTGCCCTGTGCCCAAGGTAATGCTGCCCTCCCTTGCCC  
CTTCTAAGTTTCGAAAGCCATATGTGAGACGGAGACCCTCAAAGAGAAGAGGAGTCAAGGCCCTCTCCCTGTATGA  
AACCTGCCCCGTGTATCCACCACCCTGCATCTGTTATCTTCACTGTTTCTGCTACCACTGTGAAGATTGTGAGCC  
TTGGCGGTGGCTGTAACATGATCCAGCCTGTCAATGCGGCTGTGGCCAGAGTCCCCAGACTATTTCCCATCTACTA  
CCCTCTTGGTTAACCCCTACTTCCCTTCCCTGTCCATTGAACCAGTCCCTTGTGGCCTCCTCTGTCTCACCCTTAA  
TTGTTTCTGGCAATTCTGTGAATCTTCTTATACCATCCACCCCTGAAGATAAGGCCCACGTGAATGTGGACATTG  
CTTGCTGTGGCTGATGGGGAATATGCTTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAACCTATCTCCTC  
TCTCTGCTACTGTTTTCCCGAAAGTGAACATAGCCCAGGGCCTCCACTAGCAGATGCAGAGTGCCAAGAAGGAT  
TGTCAGAGAATAGTGCTGTGCTGGACCGTTGTGAAAACAGAGGAGGGGAGGCAAGCTCTGGAGCCGCTCCCTC  
AGGGCATCCAGGAGTCTCTAAACAACCCCTACCCCTGGGGATTTCAGAGGAAATTGTCAAGATGGAACCTGAAGAAG  
CTAGAGAGGAAATCAGTGGATCCCTGAGCGTGATATTTGTGATGACATCAAAGTGGAACATGCTGTGGAATTGG  
ACACTGGTGCCCCAAGCGAGGAGTTGAGCAGTGCTGGAGAAGTAACGAAACAGACAGTCTTACAGAAGGAAGAGG  
AGAGGAGTCAGCCAACTAAACCCCTTCATCTTCTCAAGAGCCCCCTGATGAAGGAACCTCAGGGACAGATGTGA  
ACAAAGGATCATCAAAGAATGCTTTGTCTCAATGGATCCTGAAGTGAGGCTTAGTAGCCCCCAGGGAAGCCAG  
AAGATTATCCAGTGTGATGGTCAGTCACTGGGGACTCCAGTTGGGCCAGAACTGGAGGAGAGAAGAATGGGC  
CAGAAGAAGAGGAAGAAGAGGACTTTGATGACCTCACCAAGATGAGGAAGATGAAATGTCATCAGCTTCTGAGG  
AATCTGTGCTTCTGTGCCAGAACTCCAGGTGAGAGCTGGAGAATATTCTCAAGTATTTCTGTTGACTCAGTAATA  
TGTATCACTTATTGATATGCCACCTGCTTGCTTGCTGCACTATGGATAGTCCTAAAATCATTGTATTGATTG  
TGAATGCATTATGGGACATGATTGTGGAGTTGAGGTGAAATGAGATGGAAGGATGAAATTTTACTTATTATATT  
AAACTCGTTTACACATTAAA

39/5332  
**FIGURE 35**

ATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTACTTTTGCTTCACCTGAGACTGCTCCAG  
AAGTGGAGACCAGCAGAACTCCACCAGGAGAGAGCATCAAAGCTGCTGGAAAAGGCCGGAACAATCATCGAGCTC  
GCAACAAGCGGGGAAAGTCGGGGCTCGGGCCAGCAAGGACACCTCCAAGCTGCTGTTGCTGTATGATGAGGACATTC  
TCGAGCGAGATCCACTCAGGGAGCAGAAGGACTTGGCCTTTGCCAAGCTTATCTGACCAGGGTGCGAGAAGCCC  
TACAACATATCCCTGGCAAGTATGAAGACTTCCTTCAAGTCATCTATGAATTTGAGTCAAGTACCCAGAGACGGA  
CGGCTGTAGATCTCTACAAAAGCCTGCAAATTCTGCTCCAAGACTGGCCTCAGCTGTTGAAAGACTTTGCTGCTT  
TCCTGTTACCTGAGCAAGCTCTGGCCTGTGGATTATTTGAGGAGCAGCAGGCTTTTGAGAAGAGCCGCAAGTTCC  
TTCGGCAGCTGGAGATTGCTTTGCAGAGAACCCCTCACACCACCAGAAGATTATCAAGGTCCTCCAAGGCTGTG  
CAGACTGCCTTCCCCAGGAGATCACCGAGCTCAAGACACAGATGTGGCAGCTCCTCAAGGGCCACGACCACCTGC  
AGGATGAGTTTTCTATCTTCTTTGACCACTTGCGCCAGCAGCTAGCCGGATGGGTGACTTTGAAGAGATCAATT  
GGACTGAGGAAAAGGAGTATGAGTTTGATGGCTTTGAAGAAGTGGCCCTGCCTGATGTGGAAGAAGAGGAGGAGC  
CTCCCAAGATACCCACAGCCTCAAAGAACAAGAGGAAAAAAGAGATCGGGGTCCAAAATCATGATAAGGAGACTG  
AATGGCCAGATGGGGCCAAGGACTGTGCCTGCTCCTGCCATGAAGGAGGTCCAGATTCCAAGCTGAAGAAGAGCA  
AAAGGCGGAGCTGTAGCCACTGTAGCAGCAAGGTCTGTGACAGCAAAATCCTACAAGAGCAAGGAGCCCCATGAGT  
TGGTGGGCAGCAGCCCCACCGAGAGGGCTAGTCCTATGCCTGGTGCTAAGGAAGCTGGGCAGGGCAAGGATATGA  
TGGAAGAGGAAGCCCCAGAGGAGCGGGAGAGCACTGAGGCCACCCAGAGCAGGACTGTCAGGACCACCAGAAAGG  
GAGAGATGCCTGTTTTAGGATTGGCAGTGGGGAGCACTTTGCCATCCCCTCGAGAAGTGACTGTTACAGAACGGC  
TCCTCCTGGATGGCCCCACCACCTCATTACCCAGAGACTCCTCAATTTCCCCCACAACCTGGAGCTGTACTGTACA  
CTGTTAAGAGAAACCAGGTTGGGCCTGAGGTTGCTCCTGCCCAAGGCATCCCCCAGACTTCAGAAAGAGAGGG  
AGGGCCAAAAGGCAGTGAGTGAGTCAGAGGCTTTGATGCTGGTCTGGGATGCATCAGAACTGAGAAATTGCCTG  
GTACCGTGGAACCCCCCTGCTTCCTTCCTGAGTCCTGTTTCCTCAAAGACCAGAGATGCAGGGAGAAGACATGTGT  
CCGGGAAACCAGACACTCAAGAGAGATGGCTGCCCTCAAGCAGAGCTCGGGTGAAGACAAGAGACAGGACGTGCC  
CTGTCCATGAATCTCCATCAGGAATTGACACCTCAGAGACTTCTCCCAAAGCCCCTAGAGGGGGTTTTGGCTAAAG  
ACAGTGGAACACAGGCCAAGGGTCCAGAGGGGGAGCAGCAGCCAAAGGCCGAGAAGCTACGGTGTGTGCCAACA  
ACAGCAAGGTGAGCTCCACTGGGGAAAAGGTTGTCTGTGGACAAGGGAAGCTGACCGTGTGATCCTCACCATGT  
GCCAGGAGCAAGGGGCACAGCCACAGACCTTCAACATCATCTCCAGCAGCTGGGAAATAAGACCCCTGCTGAGG  
TTTCCACCGTTTTTCGAGAACTCATGCAGCTCTTCCACACTGCCTGTGAAGCCAGCTCTGAGGATGAGGATGATG  
CAACCAGTACCAGCAATGCAGACCAGCTGTCTGACCATGGGGACCTTCTGTCTGAAGAGGAGCTGGATGAATGAG  
ACTCTGGGAATCATCTACACAGGACCAAACCAACAGGCGCCCTGGCACCGGGGAGGGGGTAGTTGTACTCTGCT  
TGTACAGTCCTTGAGCCAGTTTACAGATCTGGAGAGCAGGAGGCCAGGACAAGGACAAGGCTGGAGGATGGAG  
TAGGACCCAGGGGCTCTGCCATCCTAGGCATCATTCAAGGTCTTTTATGAAGACTTTACAGATGTCTCTGTAAA  
TAGCATCGAGAGTGGAGTTCAGCTCCTTTCTCTACTTTTTTTTTTGGTCTGATGGCACATATTTATTGTTCTGTGGT  
CTAATCACAGTGTTTTCTAAATGTAAAAAGTGATATGTTGGTGTAGCTAGTCCCGCGACATTGAGCTCCTCTGCA  
TGAAGACACTGGGCTCCTGCATCCAGCTGTTTTTATTGCAAACTAGCTCCTTCTCCCACTGGGAACCTTTAGT  
CCACGAGGCTGTCAACACCTGGTAGCACTGGGCCAGGCTTTGTAGCTCCTGCAGCAGCTCTGCTACGTCATCGT  
GCTCCACTCCAGCATCCATGAAGCTGGCCAGCGCCGCAAGTCGAGTTTGGTGAGGTCTCTGGCCAAGGCTTCCA  
GGGTCTGGTGCAGGGACGAAGAGGAACACAGTGCCCCAAACACTGGGATGCTCTCCACTGCTGTGGAGGGAGAGG  
AAACAGAGACCTGTAGATGGATGATTATTCTGCCCTGGGACTCGCCAAACTGATAAGGAAGTCCAACCTTAGTAG  
ACTTGATTGTAAACTCAACAAATTTGGTGTATTGTCCCCTTAGTACACCAGTACTCCAGAGGAAGAATGCTTTTC  
TTGGGAGCCATAGGGTGAATAAAGGAATGTTAACTGTGG

40/5332  
**FIGURE 36**

CCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTGCGGTGCGCTAGTCTGGAGAA  
CTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCGG  
ACCTCCAGGAGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGG  
CGTTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGT  
CCGAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAAC  
ATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAAGACATTC  
AGTGAAGCTTGCTGATGGTAAGGAAACCAGCCCTAGAATTCTGCATTACCTGAAAAACACCAGTTTTGCTTAT  
CCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCTAAGTCTTTGCCATGTTATTTCATTTT  
TGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTGCGGGATCTTCTG  
CAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAAACTACA  
AATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGGG  
AGTCCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCTG  
AAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGG  
GGAAGAACCCTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTTCAAACTTGAGG  
AAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTGCGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCCC  
CGGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCTG  
GTTTCCAACATAACCCAAAGGAATTTGAAAGTTGTATTAGTATTATTTGGAAAACAATTGGCTTCAACATGAG  
AAAGCTCCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTCTAAGTAACGCGAACCCCTCGCTGCTGGAGCGGCAC  
TGTGCCTACCTCTAAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAAG  
ATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTGTACCTATGGGATTGGACAGGACTGCAGTTGG  
CTCTGGACCTGCATTAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTTCTAAACTTTAT  
ATCAGTTTATTGGATGTGGTTTTTTCACATTTAAGATAATTATGGCTCTTTTCCTAAAAAATAAAATATCTTTCT

41/5332  
**FIGURE 37**

CAAACAGCAGAAGGAGGTAGAGAAGGTTAAACCCCAAGTGTAAAGGAAGTTCATCAGACCCTGATTCTGGACCCAGC  
ACAAAGGAAGAGACTCCAGCAGCAGATGCAGCAGCATGTTAGCTCTTGACACAAATCCACCTTCTTGCCACCTG  
CAACCCCAATCTCAATCCGGAGGCCAGTAGCACCAGGATATGTCTTAAAGAGCTGGGAACCTTTGCTCAAAGCTC  
CATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCCTGTAACTTGATGGGAGCTATGCA  
GCTGATTGAAGACTTCAGCACACATGTGAGCATTGACTGCAGCCCTCATAAACTGTCAAGAAGACTGCCAATGA  
ATTTCCCTGTTTGCCAAAGCAAGTGGCTTGGATCCTGGCCACAAGCAAGGTTTTCATGTATCCAGAGTTACTTCC  
AGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCCTCTTACCAAGGCTGAGGACAATTTGTTAGCTTT  
AGGACTGAAGCATTGTTGAAGGGACTGAGTTTCTTAACCCCTCTAATCAGCAAGTACCTTCTAACCTGCAAGACTGC  
CCGCCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTAATTTTATAAGAA  
GACCAAACAGCTGCCAGTCTTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGGAAGCCACCTATAGAGAG  
AGAAGAACACCGGCTCCCATTTCTGGTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGTGGCGCACATGGCTGA  
TGGTGCTAGAGAGGTAGGAAATATGACTGGAACCACTGAGATCAACTCAGATCAAGGCCTAGAAAAAGACAACCTC  
AGAGTTGGGGAGTGAAACTCGGTACCCACTGCTATTGCCTAAGGGTGTAGTCCTGAAACTGAAGCCAGTTGCCGA  
CCGTTTCCCCAAGAAGGCTTGGAGACAGAAGCGTTCATCAGTCCTGAAACCCCTCCTTATCCAACCCAGCCCCCTC  
TCTCCAGCCCAGCTTCAACCCTGGGAAAACACCAGCCCAATCAACTCATTGAGAAGCCCCCTCCGAGCAAAATGGT  
GCTCCGGATTCTCACCATAACAGCCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTCCACTGGGGGTGAG  
TGGAGGTGAGAGTTTTGAGTCTCCTGCAGCACTGCCTGCTATGCCCCCTGAGGCCAGGACAAGCTTCCCTCTGTC  
TGAGTCCCAGACTTTGCTCTCTTCTGCCCCCTGTGCCCAAGGTAATGATGCCCTCCCCTGCCTCTTCCATGTTTCG  
AAAGCCATATGTGAGACGGAGACCCTCAAAAAGAAGGGGAGCCAGGGCCTTTCGCTGTATCAAACCTGCCCTGT  
TATCCACCCTGCATCTGTTATCTTCACTGTTCTGCTACCACTGTGAAGATTGTGAGCCTTGGCGGTGGCTGTAA  
CATGATCCAGCCTGTCAATGCGGCTGTGGCCAGAGTCCCCAGACTATTCCCATCGCCACCCTCTTGTTAAACCC  
TACTTCCTTCCCCTGTCCATTGAACCAGCCCCCTTGTGGCCTCCTCTGTCTCACCCCTTAATTGTTTCTGGCAATTC  
TGTGAATCTTCTTATACCATCCACCCTGAAGATAAGGCCACATGAATGTGGACATTGCTTGTGCTGTGGCTGA  
TGGGGAAAATGCCTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAAGTATCTCCTCTCTGCTACTGTTTT  
CCCCAAAGTGGAACATAGCCCAGGGCCTCCACCAGTCGATAAACAGTGCCAAGAAGGATTGTCAGAGAACAGTGC  
CTATCGCTGGACCGTTGTGAAAACAGAGGAGGGAAGGCAAGCTCTGGAGCCGCTCCCTCAGGGCATCCAGGAGTC  
TCTAAACAACCTCTTCCCCTGGGGATTTAGAGGAAGTTGTCAAGATGGAACCTGAAGATGCTACAGAGGAAATCAG  
TGGATTTCCTTGAAGCTAGGAGAATAAGAGTCTGGAGACTGGGAGCCTTCACTTCGGCCTCCGATTGGTGGCGCAT  
AGGGTGTAACCAATAGGAAACCCCTAAAGGGTACTTAAACCCAGATTTTGAACCTGGGGCTCTTGAGCAGCTTG  
CTTTAGCCTGCTCCCACTCTGTGGAATATACTTTTGCTTCAATAAATCTGTGCTTTTATTGC

42/5332  
**FIGURE 38**

AGCGCAGTATGGCGGGCGGGGCCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGGTTTCGTGGGCGCGC  
ACTGGTGGAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGCCCCG  
ACGTCCTGTATCGTACGGGCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTGA  
AGGGTAGTTTGAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGATGCTGCAATAGCATGGC  
AGGGGAAGCTCACCACACACAAAGAGGAACTCTATCCCAAGAACCCTTATCTCCAAGACTTTCTGAGTGCAGAGG  
GAGTGCTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAAGGTTCCCTCACCCTCCCCACCG  
CTACAACTCCAAAACCACTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCCTCAGAGTCCATCTCC  
ATCCCCGGAGCATCTGTATGATTGAGAAGTACAACCACGATGGGGAAGCAGGTTCGGCTGGAGGCTTTTGGCCAAG  
GGGAAAGTGTCTAAAGGAACCCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCATTTCTACGTGGAGGAATGTG  
ACTACTTGCAGGGCTTCAGATCCTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCGGCAGAGC  
TGCTACAAGATGAATATTAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGG  
CCCAGAGAAACATCTATCGTCTATTAAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGCTCT  
GCCCCCTTGTCCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGATG  
CCTAGAGGCCAAAGTGCCCATCTTGGTGTCTTCTTACAGGCCACTCTGCCCTTCCACTGCAGTGCCATCCTGGCTAC  
AGCCCTGGACACAGTCACTGTTCCCTTATCGCCTGTGTTCTCTCCAGTTTCCATGGTTCATCTGGCTGACATGCT  
GAGCTTCTGTGGGAAAAGGTGGTGACAGCAGGAGCAATCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCC  
TGATTCCCTGATGCAGTTTGGAGGAGCCACCCCATGGACCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACG  
TTGCTTTGCCCAGTCAGTGGTGTCTGAGGGGTATAGACAGAGCATGCCACACAAGCCAGCTCACCCAGGGACACC  
TCCACCCTCTGCCCTTCATGCATGTACCACTGGGGAAGAAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGG  
AGTCATGAGTTCTTCCCATCTGCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCCCACCTCTTCTCAAGCTG  
CAGTCCACCGGGTATGGTTCTGGATGGTTCCCCCAAGGGAGCAGCAGTGGAGAGCATCCAGTGTTTGGGGCACT  
GTGTTCTCTTCGTCCCTGCACCAGACCCTGGAAGCCTTGGCCAGAGACCTCACCAAACTCGACTTGCGGCGCTG  
GGCCAGCTTCATGGATGCTGGAGTGGAGCACGATGACGTAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCCA  
GTGCTACCAGGGTGGTGACAGCCTCGTGGACTAAAGTTCCAGTGTGGGAGAAAGGAGCTAGTTTGCAATAAAAA  
CAGCTGGATGCAGGAGCCCAGTGTCTTCATGCAGAGGAGCTCAATGTGCGGGGACTAGCTACACCAACATATGCA  
CTTTTACATTTAGAAACACTGTGATTAGACCACAGAACAATAAATATGTGCCATCAGACC



43/5332  
FIGURE 39A

CGCCTCCCCTCAGTTTGCCCCCTTTAGCCTTCCACCTTTCCCTTCTCCTCTCTCGCATTTCGCCAGTCAGCTTA  
CCCCTGGCCGCTCCTGACAAGCGGGAGGGATCCGCCGTGGACCCAGGGAAGCGGAGGAGCCTGGCGGCCACCC  
CCTCTTCCCCACTTCCCTGCACTCTCATCGCTCTCGGCCTCGGCCTCGGCCTCCGACACGAGAAAGATGCTGGTT  
TCGAGTTTGGAGATCCTTGTTTTTATGGAACACAGTTCTGTAAAATTTTCATAAGATTCCCTGGCAATAACAT  
ACGCTTGTGATGGACCCTAGAAATACTGCTATGTTAGGATTGGGTTCTGATTCCGAAGGTTTTTCAAGAAAGAGT  
CCTTCTGCCATCAGTACTGGCACATTGGTCAGTAAGAGAGAAGTAGAGCTAGAAAAAACACAAAGGAGGAAGAG  
GACCTTCGCAAACGGAATCGAGAAAGAAACATCGAAGCTGGGAAAGATGATGGTTTGAAGTATGCACAGCAACAG  
TTTTCAGTGAAGAAACAACTTTTCAGAGGGAAATTTAAATTTGAAAATTGGCCTCCAGGCTAAGAGAACTAAA  
AAACCTCCAAAGAACTTGGAGAACTATGTATGTCGACCTGCCATAAAAAACAACTATTAAGCACCCAAGGAAAGCA  
CTTAAAGTGGAAGATGACGGATGAAAAGAATGAACACTGTCTTCAAAACGAGACCCCTTCAAAGTTGTACAAG  
AAAGCAGATGATGTTGCAGCCATTGAATGCCAGTCTGAAGAAGTCATCCGTCTTCATTACAGGGAGAAAACAAT  
CCTTTGTCTAAGAAGCTGTCTCCAGTACACTCAGAAATGGCAGATTATATTAATGCAACGCCATCTACTCTTCTT  
GGTAGCCGGGATCCTGATTTAAAGGACAGAGCATTACTTAATGGAGGAAGTGTGTAACAGAAAAGTTGGCACAG  
CTGATTGCTACCTGTCTCCTTCCAAAGTCTTCCAAGACAAAACCGAAGAAGTTAGGAACTGGCACTACAGCAGGA  
TTGGTTAGCAAGGATTTGATCAGGAAAGCAGGTGTTGGCTCTGTAGCTGGAATAATACATAAGGACTTAATAAAA  
AAGCCAACCATCAGCACAGCAGTTGGATTGGTAACATAAGATCCTGGGAAAAGCCAGTGTTTAATGCAGCAGTA  
GGATTGGTCAATAAGGACTCTGTGAAAAAACTGGGAAGTGGCACTACAGCGGTATTCATTAATAAAAACCTTAGGC  
AAAAAGCCAGGAAGTATCACTACAGTAGGACTGCTAAGCAAAGATTGAGGAAAGAGCTAGGAATTGGTATTGTT  
CCAGGTTTAGTGATAAAGAGTCTGGCAAGAAGTTAGGACTTGGCACTGTGGTTGGACTGGTTAATAAAGATTTG  
GGAAAGAAATTGGGTTCTACTGTTGGCCTAGTGGCCAAGGACTGTGCAAGAAGATTGTAGCAAGTTCAGCAATG  
GGATTGGTTAATAAGGACATTGGAAAGAACTAATGAGTTGTCCTTTGGCAGGTCTGATCAGTAAAGATGCCATA  
AACCTTAAAGCCGAAGCACTGCTCCCCACTCAGGAACCGCTTAAGGCTTCTTGTAGTACAAACATCAATAATCAG  
GAAAGTCAGGAAGTTCTGAATCCCTGAAAGATAGTGCCACCAGCAAACTTTTGAAAAGAAATGTTGTACGGCAG  
AATAAAGAAAGCATATTGAAAAGTTCTCAGTACGAAAAGAAATCATTAATTTGGAGAAAAGAAATGTTTAATGAA  
GGAACATGCATTACAGCAAGACAGTTTCTCATCCAGTGAAAAGGGATCTTATGAAACCTCAAAGCATGAAAAGCAG  
CCTCCTGTATATTGCACTTCTCCGGACTTTAAAATGGGAGGTGCTTCTGATGTATCTACCGCTAAATCCCCATTC  
AGTGCAGTAGGAGAAAGCAATCTCCCTTCCCCATCACCTACTGTATCTGTTAATCCTTTAACCAGAAGTCCCCCT  
GAAACTTCTTCACAGTTGGCTCCTAATCCATTACTTTTAAAGTTCTACTACAGAACTAATCGAAGAAATTTCTGAA  
TCTGTTGGAAAGAACCAGTTTACTTCTGAAAGTACCCACTTGAACGTTGGTCATAGGTCAGTTGGTCATAGTATA  
AGTATTGAATGTAAAGGGATTGATAAAGAGGTAATGATTCAAAAACCTACCCATATAGATATCCAAGAATAAGC  
TCTTCCCTTGGAAAAAGCCAAGTTTGACTTCTGAATCCAGCATTCTACTATTACTCCTTCAGTTGTAACTTC  
ACTAGTTTATTTAGTAATAAGCCTTTTTTAAACTGGGTGCAGTATCTGCATCAGACAAACACTGCCAAGTTGCT  
GAAAGCCTAAGTACTAGTTTGCAAGTCCAAACCATTAAGGAAAGAAAGGAAGAAACCTCGGTGGACTAAAGTG  
GTGGCAAGAAGCACATGCCGGTCTCCAAAAGGGCTAGAATTAGAAAGATCAGAGCTTTTAAACGTTTCATGT  
AGCTCACTATCAAATAGTAATTCTGAGCCAGCCAAGTTTATGAAAACATTGGACCCCTTCATTTGTAGATCAT  
GACTTCCTTAAACGCCGATTGCCAAAGTTGAGCAAATCCACAGCTCCATCTCTTGCTCTCTTAGCTGATAGTGAA  
AAACCATCTCATAAGTCTTTTGCTACTCACAACTATCCTCCAGTATGTGTGTCTCTAGTGACCTTTTGTCTGAT  
ATTTATAAGCCCAAAGAGGAAGGCCTAAATCTAAGGAGATGCCTCAACTGGAAGGGCCACCTAAAAGGACTTTA  
AAAATCCCTGCTTCTAAAGTGTTTTCTTTACAGTCTAAGGAAGAACAAAGAACCCCAATTTTACAGCCAGAAAT  
GAAATCCCTTCCCTCAAACAAGGTCTGTCTGTGTCTCCTTTTCCAAAAAGAGAGGCAGGCCTAAGAGGCAATG  
AGGTCACCAAGTCAAGATGAAGCCACCTGTACTGTGAGTGGCTCCATTGTTGCCACTGAAAGTCCAAGCAAGCTA  
GAATCTGAAAGTGACAACCATAGAAGTAGCAGTGATTCTTTGAGAGCGAGGATCAACTTCAGGATCCAGATGAC  
CTAGATGACAGTCATAGGCCAAGTGTCTGTAGTATGAGTGACCTTGAGATGGAACCAAGATAAAAAAATTACCAAG  
AGAAACAATGGACAATTAATGAAAACAATTATCCGCAAAATAAATAAATGAAGACTTTAAAGAGAAAGAACTG  
TTGAATCAGATTCTTTCAAGTTCTGTAGAATCAAGTAATAAAGGGAAAGTGCAATCCAACTCCATAATACGGTA  
TCAAGTCTTGCTGCCACATTTGGCTCTAAATTGGGCCAACAGATAAATGTCAGCAAGAAAGGAACCATTTATATA  
GGAAAGAGAAGAGGTGCAAAACCAAAACTGTCTTAAATGGTATTCTTTCTGGTAGTCTCTACTAGCCTTGCTGTT  
CTTGAGCAAACAGCTCAACAGGCAGCTGGGTGAGCATTAGGACAGATTCTTCCCCCATTAAGTGCCTTCATCTGCT

44/5332  
**FIGURE 39B**

AGTAGTTCTGAGATTCTTCCATCACCTATTTGCTCTCAGTCTTCTGGGACTAGTGGAGGTCAGAGCCCTGTAAGT  
AGTGATGCAGGTTTTGTTGAACCCAGTTCAGTGCCATATTTGCATTTACACTCCAGACAGGGCAGTATGATTCAG  
ACTCTTGCAATGAAGAAGGCCTCAAAGGGGAGGAGGCGGTTATCTCCTCCTACTTTGTTGCCAAATTCTCCTTCG  
CACTTGAGTGAACTCACATCTCTAAAAGAAGCTACTCCTTCCCCAATCAGTGAGTCTCATAGTGATGAGACCATT  
CCCAGTGATAGTGGAATTGGAACAGATAATAACAGCACATCAGACAGGGCAGAGAAAATTTGTGGGCAAAAAAG  
AGGAGGCATTCTTTTGAGCATGTTTCTCTGATTCCCCCTGAAACCTCTACAGTGCTAAGCAGTCTTAAAGAAAA  
CATAAACACAAATGTAAGCGCAGGAATCATGATTACCTCAGCTATGACAAGATGAAAAGGCAGAAACGAAAACGG  
AAAAAGAAATATCCCCAGCTTCGAAATAGACAGGATCCAGACTTTATTGCAGAGCTGGAGGAATAATAAGTCGC  
CTAAGTGAAATTCGGATCACTCATCGAAGTCATCATTTTATCCCCCGAGATCTTCTGCCAACTATCTTTTGAATC  
AACTTTAATAGTTTCTATACATCCTTCTTTCCCTTAGACCTTTGCACTACATTTCGAAAACCTGACTTAAAA  
AAGAAAAGAGGGGAGACCCCTAAGATGAGGGAGGCAATGGCTGAAATGCCTTTTATGCACAGCCTTAGTTTTCTT  
CTTTCTAGTACTGGATTCTATCCATCTTATGGTATGCCTTACTCTCCTTACCCCTTACAGCTGCTCCCATAGGA  
TTAGGTTACTATGGAAGGTATCCTCCCACTCTTTATCCACCTCCTCCATCTCCTTCTTTTACCACGCCACTTCCA  
CCTCCTTCTATATGCATGCTGGTCATTTACTTCTCAATCCTGCCAAATACCATAAGAAAAAGCATAAGCTACTT  
CGACAGGAGGCCTTTCTTACAACCAGCAGGACTCCCCCTCCTTTCCATGAGTACCTACCCAGTGTTTCTCCTGAG  
ATGGCCTATGGTTGGATGGTTGAGCACAAACACAGGCACCGTCACAAACACAGAGAACACCGTTCTTCTGAACAA  
CCCCAGGTTTCTATGGACACTGGCTCTTCCCGATCTGTCTGGAATCTTTGAAGCGCTATAGATTTGGAAGGAT  
GCTGTTGGAGAGCGATATAAGCATAAGGAAAAGCACCGTTGTACATGTCCTGCCCTCATCTCTCTCCTTCAAAA  
AGCTTAATAAACAGAGAGGAACAGTGGGTCCACCGAGAGCCTTCAGAACTAGTCCATTGGCCTTGGGATTGCAG  
ACACCTTTACAGATTGACTGTTTCAAGATTCTCCAAGCTTATCCCTTGGAGGATTCACTCCCACTCTGAGCCA  
GCCAGCAGTGATGAACATACAAACCTTTTACAAGTGCAATAGGCAGCTGCAGAGTTTCAAACCTAACTCCAGT  
GGCCGGAAGAAATTAAGTACAGCCCTGGACTCTTTTCTGCACAGGACACTTCACTAAATCGGCTTCACAGAAAG  
GAGTCACTGCCTTCTAACGAAAGGGCAGTACAGACTTTGGCAGGCTCCCAGCCAACCTCTGATAAACCTCCCAG  
CGGCCATCAGAGAGCACAAATTGTAGCCCTACCCGAAAAGGTCTTCATCTGAGAGTACTTCTTCAACAGTAAAC  
GGAGTTCCCTCTCGAAGTCCAAGATTAGTTGCTTCTGGGGATGACTCTGTGGATAGTCTGCTGCAGCGGATGGTA  
CAAAATGAGGACCAAGAGCCCATGGAGAAAAGTATTGATGCTGTGATTGCAACTGCCTCTGCACCACCTTCTTCC  
AGTCCAGGCCGTAGCCACAGCAAGGACCGAACCCCTGGGAAAACAGACAGCCTTTTAGTGCCTGCAGTCACAAGT  
GACTCTTGCAATAATAGCATCTCACTCCTATCTGAAAAGTTGACAAGCAGCTGTTCCCCCATCATATCAAGAGA  
AGTGTAGTGGAAGCTATGCAACGCCAAGCTCGGAAAATGTGCAATTACGACAAAATCTTGGCCACAAAGAAAAAC  
CTAGACCATGTCAATAAAATCTTAAAAGCCAAAAAAGCTTCAAAGGCAGGCCAGGACAGGGAATAAAGCTTTGTGAAA  
CGTAGGCCAGGTGACCTCGGAAATGTCCCCTTACGGCTGTGCTATCAATGCAAGCATTCCAGGCTGCTCAGTTT  
GTCAACCCAGAATTGAACAGAGACGAGGAAGGAGCAGCACTGCACCTCAGTCTGACACAGTTACAGATGTAATT  
GAGGCTGTTGTTTCAAGTGTAAATCTGAACCCAGAACATAAAAAGGGGTGAAAGAGAAAAGGTTGGCTATTGGAA  
GAACAGACCAGAAAAAGCAGAAAGCCATTACCAGAGGAAGAAGAGCAAGAGAATAATAAAGCTTTAATGAAGCA  
CCAGTTGAGATTCCCAGTCCTTCTGAAACCCAGCTAAACCTTCTGAACCTGAAAGTACCTTGCAGCCTGTGCTT  
TCTCTCATCCCAAGGGAAAAGAAGCCCCACGTCCCCCAAAGAAGAAGTATCAGAAAGCAGGGCTGTATTCTGAC  
GTTTACAAAACCTACAGACCCAAAGAGTCGATTGATCCAATTAAAGAAAGAGAAGCTGGAGTATACTCCAGGAGAG  
CATGAATATGGATTATTTCCAGCGCCCATTCATGTTGTGTTTTTGTTCAGGAAAGTATCTAAGACAAAAGAGA  
ATTGACTTCCAGCTTCTTATGATATCCTTTGGCAGTGGAACACAATCAGCTATACAAAAGCCAGATGTCCCA  
CTATATAAGAAAATTCGTTCAAAATGTCTACGTTGATGTCAAACCCCTTTCTGGTTACGAAGCTACCACCTGTAAC  
TGTAAGAAGCCAGATGATGACACCAGGAAGGGCTGTGTTGATGACTGCCTCAATAGAATGATCTTTGCTGAGTGT  
TCCCCAACACTTGCCCATGTGGCGAGCAATGCTGTAACCAGAGGATACAGAGGCATGAATGGGTGCAATGTCTA  
GAACGATTTGAGCTGAGGAAAAAGGTTGGGGAATCAGAACCAAGAGCCCCCTAAAAGCTGGGCAGTTCATCATT  
GAATACCTAGGGGAGGTCGTGAGTGAACAGGAGTTCAGGAACAGGATGATTGAGCAGTATCATAATCACAGTGAC  
CACTACTGCCTGAACCTGGATAGTGGGATGGTGATTGACAGTTACCGCATGGGAAATGAGGCCCGATTATCAAC  
CATAGCTGTGACCCAAATTGTGAAATGCAGAAATGGTCTGTTAATGGAGTATACCGGATTGGACTCTATGCTCTT  
AAAGACATGCCAGCTGGGACTGAACTCACTTATGATTATACTTTTATTCTTCAATGTGGAAAAACAGCAACTT  
TGTAAGTGTGGCTTTGAGAAATGTGAGGAATCATCGGAGGCAAGAGTCAGCGTGTGAATGGACTACCAGCAGC

45/5332  
**FIGURE 39C**

AAAAACAGCCAGCCCATGGCCACACACAAAAAATCTGGACGGTCAAAAAGAGAAGAGAAAGTCTAAGCACAAGCTG  
AAGAAAAGGAGAGGCCATCTCTCTGAGGAACCCAGTGAAAATATCAACACCCCACTAGATTGACCCCCCAATTA  
CAGATGAAGCCAATGTCCAATCGTGAAAGGAACCTTTGTGTTAAAGCATCATGTATTCTTGGTCCGAAACTGGGAG  
AAGATTTCGTCAAAAACAGGAGGAAGTAAAGCACACCAGTGATAATATTCACTCAGCATCATTATATACCCGTTGG  
AATGGGATCTGCCGAGATGATGGGAATATCAAGTCTGATGTCTTCATGACCCAGTTCTCTGCCCTGCAGACAGCT  
CGATCTGTTTGAACAAGACGGTTGGCAGCTGCAGAGGAAAATATTGAAGTGGCTCGGGCAGCCCGCTAGCCAG  
ATCTTCAAAGAAATTTGTGATGGTATCATCTCTTATAAAGATTCTTCCCGCAAGCACTGGCAGCTCCACTTTTG  
AACCTTCCCCCAAAGAAAAAGAATGCTGATTATTATGAGAAGATCTCTGATCCCCTAGATCTTATCACCATAGAG  
AAGCAGATCCTCACTGGTTACTATAAGACAGTGGAAGCTTTTGTGCTGACATGCTCAAAGTCTTTTCGGAATGCT  
GAGAAGTACTATGGGCGTAAATCCCCAGTTGGGAGAGATGTTTGTCTGCTACGAAAGGCCTATTACAATGCCCGG  
CATGAGGCATCAGCCAGATTGATGAGATTGTGGGAGAGACAGCAAGTGAGGCAGACAGCAGTGAGACCTCAGTC  
TCTGAAAAGGAGAATGGGCATGAGAAGGACGACGATGTTATTCTGCTGTATCTGTGGCCTCTACAAGGATGAAGGT  
CTCATGATCCAGTGTGACAAGTGCATGGTATGGCAGCACTGTGATTGTATGGGAGTGAACCTCAGATGTGGAGCAC  
TACCTTTGTGAGCAGTGTGACCCAAGGCCTGTGGACAGGGAGGTTCCCATGATCCCCTCGGCCCACTATGCCCAA  
CCTGGCTGTGTCTACTTTCATCTGTTTGCTCCGAGATGACTTGCTGCTTCGTCAGGGTGACTGTGTGTATCTGATG  
AGGGATAGTCGGCGCACCCCTGATGGCCACCCGGTCCGTCAGTCCTATCGACTGTTATCTCACATTAACCGAGAT  
AACTTGACATCTTTTCGATTGAGAAGCTTTGGAAGAATGAAAAGAGGAACGGTTTGCCTTTGGTCAACCATTA  
TTCCGTCCCCACGAAACACACCACTCTCCATCCCGTCGGTTCTATCATAATGAACTATTTGGGGTGCCACTCTAT  
GAGATCATTCCTTGGAGGCTGTAGTGGGGACCTGCTGTGTGTTGGACCTTTATACGTATTGTAAAGGGAGACCC  
AAAGGAGTAAAGGAGCAAGATGTGTACATCTGTGATTATCGGCTTGACAAGTCAGCACACCTGTTTTACAAGATC  
CACCGGAACCGCTATCCTGTCTGCACCAAACCCTATGCTTTTGATCACTTCCCCAAGAAGCTCACTCCCCAAAAA  
GATTTCTCGCCTCATTACGTCCCAGACAACCTACAAGAGGAATGGAGGACGATCATCCTGGAAGTCTGAGCGCTCA  
AAGCCACCCCTAAAAGACTTGGGGCAGGAGGATGATGCTCTACCCCTTGATTGAAGAGGTTCTAGCCAGTCAAGAG  
CAAGCAGCCAATGAGATACCCAGCCTGGAGGAGCCAGAACGGGAAGGGGCCACTGCTAACGTCAGTGAGGGTGAA  
AAAAAACAGAGGAAAGTAGTCAAGAACCCCACTCAACCTGTACCCCTGAGGAACGACGGCATAACCAACGGGAA  
CGACTCAACCAGATCTTGCTCAATCTCCTTGAAAAAATCCCTGGAAAAAATGCCATTGATGTGACCTACTTGCTG  
GAGGAAGGATCAGGCAGGAAACTGCGAAGGCGTACTTTGTTTTATCCAGAAAACAGCTTTCGAAAGTGACCCCTCA  
AAGAATGAGAACCTCAAGCATCTGGGATCCAGTGGAGCTAATCAGTCCTGCCTCCTGCTCTCTGGGTATAGACAG  
GGGTGGGAAGGGTCCATCTGGGCAAGGGGAATGGGGCCATGTTGTTGACATTAGGTACTTAATAAGCCTTGAGC  
TAGTGGAGAGGGAGAGGAAAGGGTTCTGTCCAAGACAGTTCAGGTAAATTAATTTTCTTCTCCATTGCTTACCT  
TAAGGGTTAATAATGTAGAGAGGAGGGAGGACCACATGATGACCAGAACCTACTGGTACTTTATAGCATTGTC  
CCACCCACAGCTTAGGTTTTTCTGTATCCTCAGATCCCACAGGCATTGCGAAGAAGCTGCTTCTTATACCCAG  
GTATAACTCAAAATCCAAAGGGATAGGGCCAGGATCCCTATTCTTACCCCATCTATTCTCTGTTGGCTCCAAGAG  
CTACCCAGAGACCTTAAACAGAAACAGTAGCTGAGGCTTCTTCTTAGATACCTGACTAGGGAAGTTTGTCTCTC  
CTTTCTTGCCCAACCAGGTCAAAGTAAATGTGAGTTGACAGCTCAAAGCACTTGTAAGTCTGCCCCCTCCCTA  
CCTCTACTCCCCAAATGGAATCATGGGATAGGGAAGGCCCCCATGGGGTCAGAAGGGCACGGTAGTCTTGCAA  
TTATTTTTGTTTTACCCCTTCATAACC

46/5332  
**FIGURE 40**

CATTTACACAGGCCCCCAGCTTGGGGCGCCTTCCTTCCCCATGGCGGGACACCTGGCTTCGGATGCCTTCT  
TGCCCCCTCCAGGCGGTGGAGGTGATGGGCCAGGGGGCCGGAGCCGGGCTGGGTTGATCCTCGGACCTGGCTAA  
GCTTCCAAGGCCCTCCTGGAGGGCCAGGAATCGGGCCGGGAGTTGGGTCAGGCTCTGAGGTGTGGGGGATTCCCC  
CATGCCCCCGCTGTATGAGTTCTGTGGGGGGATGGCGTACTGTGGGCCTCAGGTTGGAGTGC GGCTAGTCCCC  
AAGGCGGCTTGGAGACCTCTCAGCCTGAGGGCGAAGCAGGAGTCAGGTTGGAGAGCAACTCCGATGGCACCTCCC  
TGGAGCCCTGCACCGTCCCCCTGGTGCCGTGAACTGGAGAAGGAGAAGCTGGAGCAAAACCCGAGGAGTCCC  
AGAACATCAAAGCTCTGCAGAAAGAACTCGAACAATTTGCCAAGCTCCTGAAGCAGAAGAGGATCACCTGGGAT  
ATACACAGGCCGATGTGGGGCTCACCTGGGGGTTCTATTTGGGAAGGTGTTAGCCAAACGACCATCTGCCGCT  
TTGAGGGTCTGCAGCTTAGCTTCAAGAACATGTGTAAGCTGCGGCCCTTGCTGCAGAAGTGGGTGGAGGAAGCTG  
ACAACAATGAAAATCTTCAGGAGACATGCAAAGCAGAAAACCTCTTGCAAGGCTCGAAAGAGAAAGCGAACCAGTA  
TCGAGAACCGAGTGAGAGGCAACCTGGAGAATTTGTTCTGCACTGCCCGAAACCCACACTGCAGCAGATCAGCC  
ACATCGCCAGCAGCTTGGGCTCGAGAAGGATGTGGTCCGAGTGTGGTTCTGTAACCGGTGCCAGAAAGGCAAGC  
AATCAAGCAGCGACTATGCATAACGAGAGGATTTTGAGGCTGCTGGGTCTCCTTTCTCAGGGGTACCAGTATCCT  
TTCCTCTGGCCCCAGGGCCCCATTTTGGTACCCAGGCTATGGGAGCCCTCACTTCACTGCAGTGTACTCCTCGG  
TCCCTTTCCCTGAGGGGGAAGCCTTTCCCCCGTCTCCGTCACCACCCTGGGCTCTCCCATGCATTCAAACCTGAGG  
TGCCTGCCCTTCTAGGAATGGGGGACAGGGGGAGGGGAGGAGCTAGGGAAAGAGAACCTGGAGTTTGTGCCAGGG  
CTTTTGGAATTAAGTTCTTCATTCATAAGGAAGGAATTGGGAACACAAAGGGTGGGGGACAGGGGAGTTTGGGGC  
AACTGGTTGGAGGGAAGGTGAAGTTCAATGATGTTCTTGATTTAATCCACATCATGTATCACTTTTTTCTTAA

47/5332  
**FIGURE 41**

CGCCCTACAGGCCCTAGCAGGGCAGGCGGGAGGTGAGCGCGGCCATCCCGCTCCCGGAGTTCCGGGATCCTGGAG  
TCCGTAGTTTCGTGGTCCTTCGCCGGTGTCCCCGGAGCCCAGCGGCTGTGGATGGCAGAAGCCCAGAGTGGGACTG  
GTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTACGCGTCTCCGTTGATAAAATCATCTCGCATTTCG  
GGCCCGCCCGGAACCTTGGTGCAGAAGGCCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGC  
TGACCACCTCTGCCCCGCCCTCCACGCCCTGGTGGCGGACGGGCTGAAGCCTTTCCGGAAGGACCTCATCACCG  
GGCAGCGCAGGAGCAGCCCCCTGGAGCGTGGTGGAGGCGTCGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGGA  
CCCTGTATAGCCAGGTCAGCCGTCTAGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCC  
TCCTCAACACCAAGCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCCTGCTCTCCCTCCTGTACC  
TGCCAACAGGATTTTTCTCCCTGGCCCGCGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGC  
CATTGTGGTGTCTACCTTTCCACCTGGACCTGCTCTTTGAGCACCACCACCACCTGCCCCGGGGCCACCTCAGG  
CCCCCTGCCCCCTCCAGGCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGGCGCGGCTGG  
CCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTGCTTCAGACCCCTCTGACTCTCCAAACCTTCCCACACCAGGGA  
GCTGGTGGGAGCAGTTGACCCAGGCCTCCCGGGTCTATGCCTCTGGGGGCACTGAGGGCTTTCTCTTTCCCGAT  
GGGCACCGGGGCGTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCCCTGCCACAGATGAGATGGCAC  
CAGGCAGGGGCTCTGGTTGGGAAGACTATTTGGAGTGCTGGGGGCCCCGCAGAAAATGAGAAATGGAGCCCTAA  
AGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGAGTGTGTTGGCTCTTGTGAAGCGGGGGCACCTCCCG  
AGATGCCTTCTCCTCAGGAGCTTGAGGCCTCAGCACCCAGGATGGTGCAAACCCATAGGGCAGTGCGGGCTCTCT  
GTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGGAAGTGCTGCGTGTATCACCACAGTGG  
ATGAGGACTGGCTCCGCTGTGGGCGGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTATACCTCCCTTGTTCTGT  
AGCCCTGGGACCCCTTTCTGCGTATGTGTCTCCTTCTGTCACCTGGGAATGGAATGGCCAGTGAACACCATCCC  
AGAAGCATTTTCCCTCTGCAAAATGACGTTTCTTCCACGTCTGTTTCTGCTAATATTTAAAATAAACTTTCTT  
CTTCCCTCCTATACCCACCTGTAAGGTGAAATCTGCTCTTCTTCCAAATATATAAAAAAGGAATTGCCCTCCAGG  
TAATCCCTTTCTTTTCCCGTCTATATAAGGGAATGTCTTCTTCTATCTATCTGCAAAATGGAAATCTAGAC  
CTCCTTCTTATCCATAAGTGGACTGTGCCAGTACAATACATGCCTCAGCCCCCAAGCCTAGAAGGACCTCTAGT  
CTCCTTCTTGTGGAATCTTCCCCACTCCATCCCTCCCAAGTTGCCTGTATTGATAATGTACTCACTCATGCTG  
TACTAGGTGCTGAAGCCTGGACACCCTTGGTGGGTGGGCCTGTGGTGATGGTTTGCATCCTTCTCTCTTGTCCC  
AATAAAGTATGGGAGTTG

48/5332  
**FIGURE 42**

AGGTGAGAGAGGATGTGTGCTGGGCCTTGGAGGAAGGGGGCCGAGACCGGGCCTTACTTCTGTAACGATACTGTG  
AGGCATCGGAAGGCCAGCCTGTTGTGTCCGTTTGAAGGATGCCCTGTCCCGCTGGTTGAGATCTGTGGGGGTC  
TTCCTGCTGCCAGCCCCCTACTGGGCACCCCGGGAGAGGTGGCTGGGTTCCCTACGGCGGCCCTCCCTGGTGCAC  
GGGTACCCAGTCCTGGCCTGGCACAGTGCCCGCTGCTGGTGCCAAGCGTGGACAGAGGAACCTCGAGCCCTTTGC  
TCCTCCCTCAGAATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTTC  
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCAGCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG  
GAGGTCCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTG  
GTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGTGGAAGTCTGCAA  
GCTTTCTTCTTGGTGGCAGATGACATCATGGATTTCATCCCTTACCGCGGGGACAGATCTGCTGGTATCAGAAG  
CCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCCTGCTGAAGCTCTAT  
TGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCTGTCAGAGTTCTATCAGACTGAGATTGGGCAG  
ACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTGTCAGATTCACTGAAAAGAGGTACAAATCTATT  
GTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGC  
GAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTTCAGGATGATTACCTT  
GACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTG  
GTTTCAGTGTCTGCAACGGGGCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAG  
AAAGTGGCCCCGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTTCTTGCAATATGAGGAAGACAGT  
TACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCAGCCGTCTTCTGGGGCTTGCGCGC  
AAAATCTACAAGCGGAGAAAGTGACCTAGAGATTGCAAGGGCGGGGAGAGGAGGCTCTCAATAAATAATCGTGTA  
ACCTT

49/5332  
FIGURE 43A

ATCCCCAAATCTGGGCCTGAGCCTAAGAGGAGGCACCTTGGGACGCTGCTCCAGCCTACGGTCAACAAGTTCTCC  
CTTCGGGTGTTTCGGCAGCCACAAAGCAGTGGAAATCGAGCAGGAGCGGGTGAAGTCAGCGGGGGCCTGGATCATC  
CACCCCTACAGCGACTTCCGGTTTTACTGGGACCTGATCATGCTGCTGCTGATGGTGGGGAACCTCATCGTCCTG  
CCTGTGGGCATCACCTTCTTCAAGGAGGAGAACTCCCCGCTTGGATCGTCTTCAACGTATTGTCTGATACTTTC  
TTCCTACTGGATCTGGTGTCTCAACTTCCGAACGGGCATCGTGGTGGAGGAGGGTGTGAGATCCTGCTGGCACC  
CGGGCCATCCGCACGCGCTACCTGCGCACCTGGTTCTGGTTGACCTCATCTCTTCTATCCCTGTGGATTACATC  
TTCCTAGTGGTGGAGCTGGAGCCACGGTTGGACGCTGAGGTCTACAAAACGGCACGGGGCCCTACGCATCGTTTCGC  
TTCACCAAGATCCTAAGCCTGCTGAGGCTGCTCCGCTCTCCCGCTCATCCGCTACATACACCAGTGGGAGGAG  
ATCTTTCACATGACCTATGACCTGGCCAGTGTGTGGTTTCGCATCTTCAACCTCATTGGGATGATGCTGCTGCTA  
TGTCATGGGATGGCTGTCTGCAGTTCTGGTGCCCATGCTGCAGGACTTCCCTCCCGACTGCTGGGTCTCCATC  
AACCACATGGTGAACCACTCGTGGGGCCGCCAGTATTCCCATGCCCTGTTCAAGGCCATGAGCCACATGCTGTGC  
ATTGGCTATGGGCAGCAGGCACCTGTAGGCATGCCCCGACGCTCTGGCTCACCATGCTCAGCATGATCGTAGGTGCC  
ACATGCTACGCCATGTTTCATCGGCCATGCCACGGCACTCATCCAGTCCCTGGACTCTTCCCGGCGTCAGTACCAG  
GAGAAGTACAAGCAGGTGGAGCAGTACATGTCTTCCACAAGCTGCCAGCAGACACGCGGCAGCGCATCCACGAG  
TACTATGAGCACCCTACCAGGGCAAGATGTTTCGATGAGGAAAGCATCCTGGGCGAGCTGAGCGAGCCGCTTCGC  
GAGGAGATCATTAACTTCACTGTGCGGGCCTGGTGGCCCATGCCGCTGTTTGCCCATGCCGACCCAGCTTC  
GTCATGCACTTCTACCAAGCTGCGCTTTGAGGTCTTCCAGCCGGGGGATCTCGTGGTGCCTGAGGGCTCCGTG  
GGGAGGAAGATGTAATCATCCAGCATGGGCTGCTCAGTGTGCTGGCCCGCGGCGCCGGGACACACGCTCACC  
GATGGATCCTACTTTGGGAGATCTGCTGCTAACTAGGGGCGCGGCACAGCCAGTGTTCGGGCTGACACCTAC  
TGCCGCTTTACTCACTCAGCGTGGACATTTCAATGCTGTGCTTGAGGAGTTCCCATGATGCGCCGGGCTTT  
GAGACTGTGGCCATGGATCGGCTGCTCCGCATCGGCAAGAAGAAATTCATACTGCAGCGGAAGCGCTCCGAGCCA  
AGTCCAGGCAGCAGTGGTGGCATCATGGAGCAGCACTGGTGCACATGACAGAGACATGGCTCGGGGTGTTTCGG  
GGTGGGGCCCCGAGCACAGGAGCTCAGCTTAGTGGAAAGCCAGTACTGTGGGAGCCACTGGTACATGCGCCCTT  
CAGGCAGCTGCTGTGACCTCCAATGTGGCCATTGCCCTGACTCATCAGCGGGGCCCTCTGCCCCCTCTCCCTGAC  
TCTCCAGCCACCCTCCTTGCTCGCTCTGCTTGGCGCTCAGCAGGCTCTCCAGCTTCCCCGCTGGTGCCCGTCCGA  
GCTGGCCCATGGGCATCCACCTCCCGCTGCCCGCCCCACCTGCCCGAACCTGCACGCCAGCCTATCCCGGGCA  
GGGCGCTCCCAGGTCTCCCTGCTGGGTCCCCCTCCAGGAGGAGGTGGACGGCGGCTAGGACCTCGGGGGCCGCCA  
CTCTCAGCCTCCCAACCCTCTCTGCCTCAGCGGGCAACAGGCGATGGCTCTCCTGGGCGTAAGGGATCAGGAAGT  
GAGCGGCTGCCTCCCTCAGGGCTCCTGGCCAAACCTCCAAGGACAGCCAGCCCCCAGGCCACCAGTGCCTGAG  
CCAGCCACACCCCGGGTCTCCAGCTTTCTGCCAACATGTAAAACCTTTGAGTACATCCAGCCTTAGTTCTTGGG  
GTGCAGTAGTATGTACCCAAGGGCAGATGCCTCTTGGGGAAGGCCATGGGGACCTGAAACATTGCCCCATGGAAA  
TGTCGACCCTGTGCGGACATTCCGCATACTGCCATGAAGACGGTCTCTGTGTCTCAGCTCAAGAACTCTGTAGC  
TTGTCCCATCATAATCCATTACCCGTTTCATCATGTGTACTGAGCAGCTACCATGTTCAAGGTAATATGCCAGGC  
GCTGTATGTCTCCACTGCCAAGTAGAAGTGAAGTCAAAACCTCTGACAAGGATATTCCCTTGGCTATGGTCTGCTC  
CAGGTGCAGGCCAGGCCATGACCCACCTTTACTAAGCACAAAGTACTTGCCACTGCCATCACTGCCAAGTAAC  
TAGATGTCTCTGTTCCCTGCCAATGATCCTGCAGGTCTGCCCGGTCTGGTTATCTTCTGTTCTGTAGCATA  
GCCAGGCACTGCCAGTCACCTGTGCCCCATTGCTGTCAGCAGATGTCTTGGGTCTGAGTGTGGGTATCCACTT  
TTACCCGCTCACTGCCACCTGTGGACACTCTGTGTCTACCTCTGAGTGGGAACATACTTCTAAGTTCCCTGCAG  
TCTCTGTCTGTGGTAGACCATCTTTTTGTAACTGCGAGCTTCCCTCTCCCTGTACCCTCTGCCCCAGTCGTGA  
CCCCCTAAAAGTTAAGGGGTAGTTGGCACCTCCTTATTAATATGCCAGCCTAGATCCCCCCCCGGTGGAGGGGCAA  
ATGGCTGAATCCTTGTGTGATATTTTTTCTTCGCTTGTATTATTATTTAATTGATTTATTTATTT  
ACTAATTTATGTGTTACCAATTAATTTTTGTTTACCCATTCCCTTTATCCATCCCTCCCCCTCTTTTCAGGTAAGG  
AGACAGGAGGAGTAGGAGGAGGCAGGGCCTCTCCATGCCAGCCTCTGTGGTCTTGGCCAAACCCATCAGCGCAA  
TACTTGAACCTTCTCCCAGGTAGGGGCAGGAGGAGCCACATGAGAGAGGGAGAAGGACCGCTTTACCTTTAGAG  
TTTTGTTTTGTTTTTCTTCTGAGTTTGCTGTTGGTGCAGGAATAAGGGAAAGGCCAAGGTATCCAAGCCTGG  
GGAAGGGCAGGCCAGCCAGCACCTCTGCCTTCTCAGGGACAAGAGTAGTCCTTTACCACCCCTCACTCTGCCTGTC  
CCCTCTCCTACTCTACAGCATTAAAGACTGTGGGACCAGGACCCTAAGTCTCCTTTCTTCTGGGTGGGGAGTTC  
TGGGGTCTTGGTGTGTGGGAGAAGTTTTATAATTGCTTCCAAACAGCTGGGTTTAAATATAAAATAGACACACT

50/5332  
**FIGURE 43B**

C



51/5332  
**FIGURE 44**

TCCCAGGGTCCCAGGGTTGGGGGGGTGGAGCAGCATTTTCGTGCGCGGGGGGTGCCGGGACTCCGGCCGCAGTGTG  
GCCGCCATCACGGACTTCCTGTGGGACAAGCGCACGGGCCTCGCCGCCAGAACGATGCCGCATCCTCGAAGGTAC  
CACTCCTCAGAGCGAGGCAGCCGGGGGAGTTACCGTGAACACTATCGGAGCCGAAAGCATAAGCGACGAAGAAGT  
CGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTCGGCGAGAGGACAGCTACCATGTCCGTTCTCGAAGC  
AGTTATGATGATCGTTCGTCCGACCGGAGGGTGTATGACCGGCGATACTGTGGCAGCTACAGACGCAACGATTAT  
AGCCGGGATCGGGGAGATGCCTACTATGACACAGACTATCGGCATTCCTATGAATATCAGCGGGAGAACAGCAGT  
TACCGCAGCCAGCGCAGCAGCCGGAGGAAGCACAGACGGCGGAGGAGGCGCAGCCGGACATTTAGCCGCTCATCT  
TCGCAGCACAGCAGCCGGAGAGCCAAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGAC  
TGGCTACAAGAGCGATATGAAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGAC  
CATCGCAGGGGTGGGGCTCGAGTTGCCCTGAAGATCATTAAAGATGTGGAGAAGTACAAGGAAGCAGCTCGACTT  
GAGATCAACGTGCTAGAGAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTCCAGATGTTTGACTGG  
TTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGCCTTAGCACCTTCGATTTCTCAAAGACAAC  
AACTACCTGCCCTACCCCATCCACCAAGTGCGCCACATGGCCTTCAGCTGTGCCAGGCTGTCAAGTTCCTCCAT  
GATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATGAGCTCACCTAC  
AACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCGGGTGGTAGACTTTGGCAGTGCCACC  
TTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTACCGAGCACCAGAAGTCATCCTTGAGTTGGGC  
TGGTCACAGCCTTGTGATGTGTGGAGTATAGGCTGCATCATCTTTGAATACTATGTGGGATTACCCCTCTCCAG  
ACCCATGACAACAGAGAGCATCTAGCCATGATGGAAGGATCTTGGGTCCTATCCCTTCCCGGATGATCCGAAAG  
ACAAGAAAGCAGAAATATTTTACCAGGGTTCGCTGGATTGGGATGAGAACACATCAGCTGGGCGCTATGTTTCGT  
GAGAACTGCAACCGCTGCGGCGGTATCTGACCTCAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAA  
AGCATGCTAGAGTATGAACCAGCTAAGCGGCTGACCTTGGGTGAAGCCCTTCAGCATCCTTTCTTCGCCCCGCTT  
CGGGCTGAGCCGCCCAACAAGTTGTGGGACTCCAGTCGGGATATCAGTCGGTGACGATCAGGCCCTGGGCCCCC  
TGCATCTTTTATAGCAGTGGGTGTCCAGTCCAGGACACTGGTGCTTTTTTATACAAGAGAACGAGCCAGAGTTCA  
CTCCTTCCTCCTGGCTCTCTATATACCTGTGAATATGTGAAATAGTGTAATATGAAAGAACTTGTACCTATCAC  
TTCAACCCCTGCCTTGACATAATACTATTCCATCCACACAGTTTCCACCCTCACCTGCCCCCTCATACGGAGTT  
GGATGGGGGCCGAGTGAGGTAACCAGGTGGCATCTACCCCATGTTTTATAAGGAATTTTGTACAGTCTTTGTGAA  
ATAAAATAACGTGCTTCATTTGA

52/5332  
**FIGURE 45**

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGCACTTTCGTCTTAGCTTTTGGACAAGACGCAG  
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG  
GGCGAACTGAGGCGAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGAGGGCA  
GAGGGCCGCGGAGGCCGAGTTGCAAACATGGCTCAGAGCAGAGACGGCGGAAACCCGTTTCGCCGAGCCCAGCGA  
GCTTGACAACCCCTTTCAGGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTA  
CAACCCTTTTGTAGACCCGGGAGCCACCACCAGCCTATGAGCCTCCAGCCCCTGCCCCATTGCCTCCACCCTCAGC  
TCCCTCCTTGCAGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCTC  
AGCTGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAG  
GGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGGCAGAGCTACTCGACAGAACAATTGGCCCCCTCTACCTTCTTT  
TTGTCCAGTTTCCAGCCCTGCTTTTTTCCAGGACATCTCCATGGAGATCCCCAAGAATTTCAGAAGACTGTATCCAC  
CATGTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACTTCTTCGCCTGCCTGGCCAGCTTCTGTGT  
GGAAACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCTCCTTTTCACTCCCTGCTCCTTTGTCTG  
CTGGTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTCAATTCAATTCTTCGTTTTCTTCTTCAATTTCTT  
CGTCCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCCAGGTTGGGGATTTCAGTGGCTGGATCTCTGCTCT  
GGTGGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCCGCCCTGCTCTTCACTGGCATTGCTGT  
GCTAGGAATTGTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCCAGCA  
AGAATTTGCTGCTGGTGTCTTCTCCAACCCTGCGGTGCGAACCAGCTGCCAATGCAGCCGCTGGGGCTGCTGA  
AAATGCCTTCCGGGCCCCGTGACCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCC  
GTCCCTAAGGTCTCTGGGACTTGGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCC  
ATGACTGCTGAACCTGACAGGCGTGTGGGGAGTTCAGTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCAC  
CTCTCACAGCCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGT  
GGAAGTGGAACTGAC

53/5332  
**FIGURE 46**

CCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGTGGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGC  
GCCGCGGCCCTCTCCCCACCAGGCGGCCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCGCCTCTAGAG  
TCACCCACGCGCGACCCCTCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCTCCCCACCCCTCC  
CTGGGCTCCAGGCGCGCGCCCCCTCCTCACTCCTGGACCGGCCCTTCTCGGTGCCCTCTTCCCTAGGGAGATGC  
GATGAGCCGGTGCCCCCGCGTCTCATCGTCGCCCCGGGCACGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAG  
CACTCCGCGGTCCCTCCGTGACGCCCCCTCGCTTGGCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGG  
ACCCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGGTGGAGAGGAGAAAGGACGGGGCCTTGGGCGCCTCTGAGAT  
GCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCTCGCCTAGTGA  
CCAGCCGCTCGCTGACCAGCCGGCCCCAGCACCAGGGGCCTTACCCACCTCCGCTCCACCGACCCCTGGCTGCAGG  
CCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCG  
TCACCACCACCGAGAGCATCAAGAGGTCTGCCCCGTCTTGGGCTGGGTTCTCGCTGGCGTTCTCCGGGGTGGTTG  
GCATTGTGCTCTGGAAGCGGCCATTCACTCTAGTGATCTCCTTCTTCTCCTTGCTTTCGGTGCTCTGTGTATGC  
TTAGCATGGCTGGCTCTGTTCTCTCCTGTAAGAATGCTCAACTGGCCCCGAGACTTCCAACAGTGCTCTCTGGAAG  
GAAAGGCTGTGTGTGTGCTGTCCCTCTGTTCCCTCCTCCGGCCCTGTCCAGAGTCGGGGCAGGAAGTGAAGTTG  
CCCCTAACCTCCACCTGTGATGAAGCCCCGAGGGGGCCCTCAAGAACCTGCTCTTCAGCGTCTGTGGGCTCACCATT  
GTGCCGCTATAATCTGTACACTCTCTGCTATTGTCTGCTGCATCCAAATCTTCTCCCTGGACCTCGTGCATACGC  
AGCTGGCCCCCTGAGCGGTCACTCTCAGGCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCCAGCCCCCTCTCC  
TACACACCATGCTGGACCTGGAGGAATTTGTCCCGCCTGTGCCCCCACCGCCCTACTATCCCCCAGAGTATACCT  
GCAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGCTCCATGGACAGCCAGTGCCTTGTACCCTACCG  
ATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTCTTTGACCCTCAGCTTC  
ACGATGGCTCGTGATCTGTGAACGAGTGGCCTCCATTGTAGACGTGTCCATGGACAGCGGGTCTCTGGTGCTGT  
CAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTCGGAGGACTCGTGCTGCTGGAGCTGCAGGGCTCCGTGC  
GCTCCGTGGACTACGTTCTCTTTTCGCTCCATCCAGCGCAGCCGTGCCGGCTACTGCCTCAGCCTGGACTGTGGCC  
TGCGGGGGCCCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCACGGGGCTGCCCGCTCCTATTCTGCTCTGCCC  
CTGAAGCTCCACCCCCACTGGGTGCCCCCACAGCTGCCCGCAGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGG  
TGGGACCCTGCTTCCCCGAGCTGAGGCGGCGGGTCCCCCGGGGAGGGGGCCGCCAGCCGCAGCCCCGCCACCC  
GAGCCCCGACTCGTCGCTTCAGCGATAGCTCAGGTTCCCTCACCCACCGGGGCACCGGCCTCCTCATCCGGCAT  
CCCCACCACCGCTGCTGCTGCCACGGTCCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCA  
GGGACCTTTATACCAAAGTGCTTGAGGAAGAAGCTGCTTCTGTTTCTCTGCAGATACAGGGCTCTGCTCTGAAG  
CCTGCCTCTTCCGCTAGCCCGCTGCCCTTCCCCAAGTTGCTACGTGCCCGGTGAGCCGAGAAACGGCGCCCTG  
TGCCACCTTCCAAAAGTTCCCTGCCCCTCGGGCCCTGCACCTGCCCACTCCCTGGGGGACCTAAAGGGCAGCT  
GGCCAGGTGCGGGCCTGGTCACTCGTTTCCCTCCAGATATCCAGGAAAGCCCCAGACCCAGTGGGACTGGAGCTC  
ATGGACATAAGCAGGTGCCCCGAGCCTGTGGGGCCGGCCTGGCCGAGAGAGCCTCCACCTTCGCAGCTGCGGAG  
ATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCCGAGGCTGGAGCGTGGTACCGCCCCCACAGCC  
TCAGCCTCAACGGGGGAGCCGGGAGACTGGGCTCTGACCTAGGCTTCTTGTCACTGAACACATCCAGCCACA  
GGCACCAGCTGGTTGGGACCAGCAGCCCCCAGCATCCTCTTGCACTGGCTGGCACAAAAGAAACCTGCTGTATA  
CCCCCAAAGTGCTCCCTTTCCCTCCTACCTCTGGGGTCTCTTGCTGCTTGCTCTGCTGCTCTGGACTGGGAGAG  
CTTCTGTCTGTGCTGCATGGGTATTTAGACTGTGGGGGAGATGCCCTTCTTATAGCACTGGAGGAGGAAAACA  
AATTCTTGTCCCCCTCAGAATGAGAGTGGCTCTTTCTGATTGCAAGGGCACTATGGTCAGGGCAAAGGCATGGC  
CCAGGTGTTTAAAGTACAGGGTGACGTGTGCCTATGCAATGGGGTGGTAAGGCAGGCACGAAGAGTCCAAAAATC  
TAGGTGGCCTCTCAGCTCTGCCACCTCTAGCTGCATGACCTTGGGCAAGCTATGTAACCCCAATTGCCTGCTCCA  
TTAAAGACTGTGAAGGTAGAATGTTGTAAAGCTCTTAACAGTATGTAAGCCTTCAATAAATTTAGTTTTCCCC  
TT

54/5332  
**FIGURE 47**

AATCCAGGTCCCGCCCCGACTCCCCAGGGCTGCTTTTCTCGCGGCTGCGGGTGGTCGGGCTGCATCCTGCCTTCA  
GAGTCTTACTGCGCGGGGCCCCAGTCTCCAGTCCCGCCCAGGCGCCTTTGCAGGCTGCGGTGGGATTTTCGTTTTG  
CCTCCGGTTGGGGCTGCTGTTTTCTTCTCGCCGACGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTCCAATT  
CCTGACCTCGTGATCCGCCCGCCTCGGCCTGCCAAACAGCTGTGATTATAGGCGTGAGCCACCGCGCCCCGGCCAA  
CCATCATTATTATTTTAAACGAGACTCTGGAACCCCTGTGGTCTTCTCTTCATCTAATGACCCTGAGGGGATGGA  
GTTTTCAAGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGCCTCACAGG  
ATTGCTTCTACTTCAGGCAGTGTCTGTTGGCATCAGGTGCCCGCCCCCTGCATCCCTAAAAGCTTCGGCTACAGCTC  
GGTGGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACCTTTCTGCCCCTGGTACCTTCAG  
CCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCAC  
AGGCCTGCTACTGACCCTGCAGCCAGAACAGAAGTTCCAGAAAGTGAAGGGATTGGAGGGGCCATGACAGATGC  
TGCTGCTCTCAACATCCTTGCCCTGTCACCCCTGCCAAAATTTGCTACTTAAATCGTACTTCTCTGAAGAAGG  
AATCGGATATAACATCATCTGGGTACCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACAC  
CCCTGATGATTTCCAGTTGCACAACTTCAGCCTCCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTACCG  
AGCCCTGCAGTTGGGCCAGCGTCCCGTTTCACTCCTTGCCAGCCCCCTGGACATCACCCACTTGGCTCAAGACCAA  
TGGAGCGGTGAATGGGAAGGGGTCACTCAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTT  
TGTGAAGTTCTTGATGCCTATGCTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGC  
TGGGCTGTTGAGTGGATAACCCCTTCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCCGTA  
CCTAGGTCCTACCCTCGCCAAACAGTACTCACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCT  
GCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTA  
CCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACACCGCCTGTTCCCCAACACCATGCTCTTTGC  
CTCAGAGGCCTGTGTGGGCTCCAAGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTA  
CAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGA  
AGGAGGACCCAATTGGGTGCGTAACTTTGTGACAGTCCCATCATTGTAGACATCACCAAGGACACGTTTTACAA  
ACAGCCCATGTTCTACCACCTTGCCCACTTCAGCAAGTTTATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGC  
CAGTCAGAAGAACGACCTGGACGCAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGTCTAAACCG  
CTCCTCTAAGGATGTGCCTCTTACCATCAAGGATCCTGCTGTGGGCTTCTGGAGACAATCTCACCTGGCTACTC  
CATTCACACCTACCTGTGGCGTCGCCAGTGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTA  
AAGGGACAGAGTCAGCTCACACGCTGTCTGTGACTAAAGAGGGCACAGCAGGGCCAGTGTGAGCTTACAGCGACG  
TAAGCCCAGGGGCAATGGTTTGGGTGACTCACTTTCCCCTCTAGGTGGTGCCAGGGGCTGGAGGCCCTAGAAAA  
AGATCAGTAAGCCCCAGTGTCCCCCAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGTGTTGAAA  
CTGGGCTGGGTCCAGGCCTAGGGTGAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAG  
AAGAGACTAGGAAAGCTGGGCCCAAACTGGAGACTGTTTGTCTTCTGAGATGCAGAACTGGGCCCGTGGAG  
CAGCAGTGTGAGCATCAGGGCGGAAGCCTTAAAGCAGCAGCGGTGTGCCAGGCACCCAGATGATTCTATGGC  
ACCAGCCAGGAAAAATAGCAGCTCATATGGGAGAAATGTTTGAGCC

55/5332  
**FIGURE 48**

CAGTGCCCCACAGCTCTTCAGGCCCTTCCTGTGCCTGGCTGCCCTCCCACCCTACCCTTTTGTACCTCTGAGAAG  
GCTCTGGCCCCACGCACAGCCCCACTGTCAACAGGGCCAGTATCTGTCTCAGGGACCTCCTATCCAGAGCCTGAG  
CCAGCCCCAGCCCCAGCCCCAGCTCCAGCTGCTCCATCTGAACCTGTATCTTCTTCCAAGCCACCCATTACCCCTC  
TTGGAGTCAGACTCACGCATCTCCAAAGAAGAAGCTTTTGAGAGCCCAGGCGCTGAGAGAGCAGGGTCAGACACTC  
CCGAGCCTCTCGGTACAGCTGTAGGGGGCGACACAGGTAGGCTTGACAGCTGCGGGAACAGTGCCACCTCCGCACCT  
AAGCACTCCCATTCCTGGCCAGCATCCTTGGGGCTCATCTCATACAATAGCCCCCGGTCTCAGAGCTACCTCCTT  
CTCCAGCTCTTCTCGTCTCAGGCCTGTGCTCCCCAGTCAGCAGCTGTAGCCGTTCCATGTACTGCCGCTGCAT  
GCGGCCAGGCAGGAAGAAGTTGAGGGGAAAGGGCATAGCCTCTGCATACCACTTCCGGGTCACTTCTACGTAGTT  
CTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACC  
TGTCTGATTCAAGGTGGGCTTCTGACCTCCATGCTCTCCTGAGTCTCTGTGTGGGTCTGTGTGTTCCCGTCCCCT  
CCCCGGCTGGCCATGGATGCTGGGAGGTCTGGGCACTCACCAGCACCGGGATCAACTTCTCCTCCAGGAGAGA  
CATGAAGGCCAGGGTGTCTGCCCCCTTGCTGAGCTGACAGATCATAATCAGCATGTACTTCTGTGGAGGAAATAT  
CCATGGCGTGGACGCTGGGGAGCTGCAAGGGCACTTCACCAGGGAGGAAGGAGTCTGTCTGGTACCCCCCTCAC  
TGGCCTCTGAGTGCAGTGGAGGTACAGCAAGGAAGCTTTTCTGCCAAGGCCCCCTTGCCCTGGGGCCAGCCAGTAG  
CCTGTTGCTGTTGGCAAAAAGCCTGGGCTTGGAGCCCGCTGGCCGTCAAGGTCTGGGGCCATTGAGAAGAAGG  
AAGAAAGTTGGGCCGCAAACTAGGAGCAGCTCCCAGAATTTCCATGGAAAGCTGGAAACAATGCCTGCTGACAGC  
AACTTTCTAACAGTAAGTTTCCCGACCCAGACACCACAAAGCTAGCACAAACGGAGCTCAGATGCAGGCTAGGACT  
CGGTCCATGCCTCAGGAACCAGGGAAAGCCATCCTCACACTCCCTGGATCCAGGGAAACCCACGCCCAGGGCCCCC  
CAGCTTGTTCCCTCAGTGCCCAGCTCTTGGCTATTTCTTTCACTTCACTTCCATCGCCCAGACACCATTACCACAT  
ACACATTCCATCCATACCCCCAGGTCTCAGCCTGCCCTACCTTCCCAGGCTCCAGTCCCTGTTCTCAGCATCCC  
CCACCACATCCTGAGTAAGCTTTGTCCCCAGATAACCTCTTCAGCATGATCCTTAAATCTCCCTAAGCCTCAGTT  
TCTCCCCTGTGGAATGGGGGTAAGAATCTCTTTCTCTGAATGCCCTGTGTTAGGAAATAATTTAGAATACTTCG  
GAAACAAAAGCTCTGTTACACCTAAGCAATCAGGGCAGTGGCCCTGGCCTTGCCAGGAACCTTAGGCTTTTATC  
TGGATCCTCTTTCCAGGCCTCTCAATTAATTTCCCAGGTCTTAACCTTTGGGAAATTAGAAATTAGGAAGAGTG  
TCCCACCTCTGACACTGTGTTCCCTCTTGGAACCTGACCGTCAATGCTAGAAGAACCCTTGGAACATGCTGGC  
CCAGCCCTCTAGTTTTACAAATAAGGGAGTGCACAGCCCTGAGAGGTTACATGGCCTGCCAAGATCACGCAGTC  
AATGGCAGAGTAAAGAGCATAGCCTAGGCCTCCCCACTCCTCTAGTAATGCTCTTTCATCTTCTCCAACCTGGCT  
CTAAGCCTTGTCATCCTGAGCCCCATATCTAGCCCAACCTAGTCCCTGAAAACAAGAAGTGGCCCTTAGAAATC  
TCTCTCCAGTCCCACTATCAGAGGCCAACTGCTGTCTTCCAGTCTCCTTCAGCCTGTGCTCCTCTCCCTCCCTGA  
CTGACAGGCAGAAGGTACCGTGCCTCTGGATATCCCCACAGTGCCCTGAGCTGCATCTCTTGCCGACTGCTTTAA  
TACATCACAGTGACATTGTGTGTGTCTCTGCCACCAGACTATTGCTCCTTGATGCTCTGGGTCACCTGCATCTAG  
CATGGCATATATCTAGTGCTCAATAAATGTGTATTGTACGG

56/5332  
**FIGURE 49**

AAGCCCCAGCCCGGCTCCGCTCCGGCCGCCGCCACCGCCCTGTTTTGTTTCCATGGCGACAGGCGGCGCAGGG  
CCCGCTCCAAACATAACGCGCTGTGGAAAACATGCTGCTCGGGGGACCCCCCGCAGTCCCCGCTCGGGGACGAG  
CCCCAAGGGGGCCCTGGAGCAGTACAGGCCACGTGCAGTTTGGCAAGAGCCCCCAGACCTGGCCCAGGCGCACAAAG  
ACCCCGCTCTCCAGAGCCTGCCGCGCCTTCAAGGGTTTCGGGGCTCCACTTGGACGAGGCGCCGTGACTCTCCGAG  
GCGCGCCGGGGCCGACAGCGCTGTCCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCGCCCTCCCCGAGGC  
CCGCGGGCCAGTCCCCCGCAGTTCAGCTGCCAGTCGGGGCAGAAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGG  
CCCCCTGACCGCAACGATCGGAGGGGCGGTGGCGGGGGGCGGGCCCAGGCAGGGGAGGGCAGAAGCACACAAGGA  
AGTGTTTTCCGGGACAGAGGGTGGGCAAGATGGCGGGCGCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGGGGCT  
GCCGTCAGTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTGCTCCACTGAAGGTACACAA  
GATCAGCAACCCCTGGCAGAGCCCTTCAGGAACCTGCTGCTGCCCTTCGGACCAGTCATGGAGAGGTCATCTCAGT  
TCCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTTGGATAGACACCAAGAACTACGTGGAAGT  
GACCCGGAAGTGGTATGCAGAGGCTATGCCCTTTCCCCTCAACTTCTTCTGCTGGCCGCATGCAGCGGCAGTA  
CATGGAACGGCTACAGCTGCTGACTGGGGAGCACAGGCCTGAGGACGAGGAAGAGCTGGAGAAGGAGCTGTACCG  
AGAGGCTCGGGAGTGTCTGACCCTGCTCTCTCAGCGCCTGGGCTCTCAAAAAGTTCTTCTTTGGAGATGCCCCCTGC  
CTCCTTGGACGCCTTCGTCTTCAGCTACTTGGCCCTGCTGCTGCAGGCAAAGCTGCCCAGTGGGAAGCTGCAGGT  
CCACCTGCGTGGGCTGCACAACCTCTGTGCCTATTGTACCCACATTCTCAGTCTCTACTTCCCCTGGGATGGAGC  
TGAGGTACCACCGCAACGCCAGACACCAGCAGGCCCCAGAGACTGAGTGAGTGAGCCATACCGGCGCCGGAACCAG  
ATCCTATCTGTGCTGGCAGTGAAGTGGCAGCCATGGTGGGCTACGCCTTGCTCAGCGGCATTGTCTCCATCCAGCG  
GGCAACGCCTGCTCGTGGCCCCAGGCACCCGGACCCTGGGCATGGCTGAGGAGGATGAAGAGGAATGATTTGTCC  
TCACGCTCCCAAGACTGGTTTTTCTACTCTCATGCATTCCAGAGGCCCCCGTGCTCCTCGTTGTTGGTACAGCC  
GGACACGGGGTGTGCCACCCAGAATAAAGCCACTCACACTG

57/5332  
**FIGURE 50**

ATGGAGACGCAGGAACTTCGGGGGGCCCTGGCTCTTCTCCTCCTTTGCTTTTTACATCTGCCAGTCAGGATCTG  
CAGGTAATTGACCTGCTGACTGTGGGCGAGTCTCGGCAGATGGTAGCTGTGGCAGAGAAGATCCGGACAGCCTTG  
CTCACTGCTGGGGACATCTACCTCTTATCCACCTTCCGCCTGCCCCCAAGCAGGGTGGTGTCTCTTTGGCCTC  
TATTCTCGCCAAGACAACACTCGATGGCTGGAGGCCTCTGTTGTAGGCAAGATCAACAAAGTACTGGTGCATAC  
CAGCGGGAGGATGGCAAAGTCCACGCCGTGAACCTACAGCAAGCGGGCCTGGCTGATGGGCGCACACACAGTT  
CTCCTGCGACTCCGAGGTCCCTCCAGACCCAGCCCTGCCCTACATCTCTACGTGGACTGCAAACCTGGGTGACCAA  
CATGCAGGCCTTCCAGCACTGGCCCCCATTCCTCCAGCGGAGGTGATGGGCTGGAGATTAGGACTGGACAGAAG  
GCGTATTTGAGGATGCAGGGCTTTGTGGAATCTATGAAAATTATTCTGGGTGGGTCCATGGCCCGGTAGGAGCC  
CTGAGTGAGTGTCCATTCCAAGGGGACGAGTCCATCCACAGTGCAGTGACCAATGCAGTGCAGTCCATTCTAGGG  
GAGCAGACCAAGGCGCTGGTCACCCAACTCACCCTCTTCAACCAGATCCTGGTGGAGCTGCGGGATGATATACGA  
GACCAGGTGAAGGAAATGTCCCTGATCCGAAACACCATTATGGAGTGTGAGGTGTGCGGCTTCCATGAGCAGCGT  
TCCCAGTGCAGCCCCAATCCCTGCTTCCGAGGTGTGGACTGCATGGAAGTGTACGAGTACCCAGGCTACCGCTGT  
GGGCCCTGCCCCCTGGCCTGCAGGGCAACGGCACCCACTGCAGTGACATCAATGAGTGTGCTCAGCTGACCCC  
TGTTTCCCGGGCTCCAGCTGCATCAACACCATGCCCCGGCTTCCACTGTGAGGCCTGTCCTCGAGGGTACAAGGGC  
ACACAGGTGTCTGGTGTGGGCATTGACTATGCCCGGGCCAGCAAACAGGTCTGCAATGACATCGATGAATGCAAC  
GATGGCAACAATGGTGGCTGTGACCCAACTCCATCTGCACCAACACTGTGGGCTCTTTCAAGTGTGGTCCCTGC  
CGCCTGGGTTTCTTGGGCAACCAGAGCCAGGGCTGCCCTCCAGCCCGGACCTGCCACAGCCAGCCACAGCCCC  
TGCCACATCCATGCTCACTGTCTCTTTGAACGCAATGGTGCAGTGTCTGCCAGTGTAACTGGGCTGGGCTGGG  
AATGGGAACGTGTGTGGGACTGACACAGACATCGATGGCTACCCAGACCAAGCACTGCCCTGCATGGACAACAAC  
AAACACTGCAAACAGGACAACCTGCCCTTTTGACACCCAACTCTGGGCAGGAAGATGCTGATAATGATGGTGTGGG  
GACCAGTGTGATGATGATGCTGATGGGGATGGGATCAAGAATGTTGAGGACAACCTGCCCGCTGTTCCCCAACAAA  
GACCAGCAGAACTCAGATACAGATTCAATTTGGTGTGCTGTGACAATTGCCCCAACGTTCCCAACAATGACCAG  
AAGGACACAGATGGCAATGGGGAAGGAGATGCCTGTGACAACGACGTGGATGGGGATGGCATCCCCAATGGATTG  
GACAATTGCCCTAAAGTCCCCAACCCACTACAGACAGACAGGGATGAGGACGGGGTGGGAGATGCTTGCGACAGC  
TGCCCTGAAATGAGCAATCCTACCCAGACAGATGCAGACAGCGACCTGGTGGGGGATGTCTGTGATACTAATGAA  
GACAGCGATGGGGATGGGCATCAGGACACCAAGGACAACCTGCCACAGCTGCCAAATAGCTCCCAGCTGGACTCT  
GATAACGATGGACTTGGAGATGAGTGTGATGGGGATGATGACAATGATGGCATCCAGATTATGTGCCTCCTGGT  
CCCGATAACTGCCGCCTGGTACCCAATCCCAATCAGAAGGACTCAGATGGCAATGGCGTTGGTGTGTGTGTGAG  
GATGACTTTGACAATGATGCTGTGGTGCACCCCTGGATGTGTGTCTGAAAGTGCAGAGGTAACGCTTACGGAT  
TTTCGGGCCTATCAGACCGTCGTCTGGATCCTGAGGGTGTGCTCAGATTGACCCAACTGGGTTGTGCTCAAC  
CAGGGCATGGAAATCGTTTACAGACCATGAACAGTGACCCTGGCTTGGCAGTTGGATACACGGCCTTCAATGGTGTG  
GACTTTGAAGGCACCTTCCATGTGAACACAGTGAAGTGTGATGACTACGCAGGCTTTCTCTTCAAGTTATCAAGAC  
AGTGGCCGCTTCTACGTAGTCATGTGGAAGCAGACCGAGCAGACCTACTGGCAGGCTACACCTTCCGGGCGGTT  
GCCCAGCCCGGGCTGCAGCTCAAGGCAGTGACATCAGTGTCTGGCCAGGTGAGCACCTCCGAAATGCCCTGTGG  
CATACTGGCCACACCCCTGATCAGGTACGACTGCTGTGGACAGACCCACGAAATGTGGGCTGGCGGGACAAGACC  
TCCTATCGCTGGCAGCTTCTGCACCGGCCTCAAGTTGGCTACATTCCGGGTGAAGCTCTATGAGGGACCCAGCTT  
GTGGCGGATTCTGGGGTGTATCATTGACACATCCATGCGAGGGGGCGTCTTGGTGTATTCTGCTTCTCCCAAGAA  
AACATAATTGGTCCAATCTCCAGTATCGATGCAATGACACAGTGCCCTGAGGACTTTGAGCCATTCCGGAGGCAG  
CTGCTCCAGGAAGGGTGTA

58/5332  
**FIGURE 51**

CGCTCCACCTCTCAAGCAGCCAGCGCCTGCCTGAATCTGTTCTGCCCCCTCCCCACCCATTTACCACCACCATG

ACACCGGGCACCCAGTCTCCTTTCTTCCTGCTGCTGCTCCTCACAGTGCTTACAGTTGTTACAGGTTCTGGTCAT  
GCAAGCTCTACCCAGGTGGAGAAAAGGAGACTTCGGCTACCCAGAGAAGTTCAGTGCCAGCTCTACTGAGAAG  
AATGCTGTGAGTATGACCAGCAGCGTACTCTCCAGCCACAGCCCCGGTTCAGGCTCCTCCACCACTCAGGGACAG  
GATGTCACCTCTGGCCCCGGCCACGGAACCAGCTTCAGGTTACAGTGCCACCTGGGGACAGGATGTCACCTCGGTC  
CCAGTCACCAGGCCAGCCCTGGGCTCCACCACCCCCCAGCCCACGGTGTCACCTCGGCCCCGGACACCAGGCCG  
GCCCCGGGCTCCACCGCCCCCCCAGCCCACGGTGTCACCTCGGCCCCGGACACCAGGCCGGCCCCGGGCTCCACC  
GCCCCCCCAGCCCATGGTGTCACCTCGGCCCCGGACAACAGGCCCGCCTTGGGCTCCACCGCCCCCTCCAGTCCAC  
AATGTCACCTCGGCCTCAGGCTCTGCATCAGGCTCAGCTTCTACTCTGGTGACAACGGCACCTCTGCCAGGGCT  
ACCACAACCCAGCCAGCAAGAGCACTCCATTCTCAATTCCCAGCCACCACTCTGATACTCCTACCACCCTTGCC  
AGCCATAGCACCAAGACTGATGCCAGTAGCACTCACCATAGCACGGTACCTCCTCTCACCTCCTCCAATCACAGC  
ACTTCTCCCCAGTTGTCTACTGGGGTCTCTTTCTTTTCTGTCTTTTTCACATTTCAAACCTCCAGTTTAAATTCC  
TCTCTGGAAGATCCCAGCACCGACTACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTTGCAGATTTAT  
AAACAAGGGGGTTTTTCTGGGCCTCTCCAATATTAAGTTTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCC  
TTCCGAGAAGGTACCATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAAACGGAAGCAGCCTCTCGA  
TATAACCTGACGATCTCAGACGTGACGCTGAGTGATGTGCCATTTCTTTCTCTGCCCAGTCTGGGGCTGGGGTG  
CCAGGCTGGGGCATCGCGCTGCTGGTGCTGGTCTGTGTTCTGGTTGCGCTGGCCATTGTCTATCTCATTGCCTTG  
GCTGTCTGTGAGTGCCGCCGAAAGAACTACGGGCAGCTGGACATCTTTCCAGCCCGGGATACCTACCATCCTATG  
AGCGAGTACCCACCTACCACACCCATGGGCGCTATGTGCCCCCTAGCAGTACCGATCGTAGCCCCCTATGAGAAG  
GTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCTTACACAAACCCAGCAGTGGCAGCCACTTCTGCCAACTTGTAG

GGGCACGTCGCCCCGCTGAGCTGAGTGAGTGCCAGCCAGTGCCATTCCACTCCACTCAGGTTCTTCAGGGCCAGAGCCC  
CTGCACCCCTGTTTGGGCTGGTGAGCTGGGAGTTCAGGTGGGCTGCTCACAGCCTCCTTCAGAGGCCCCACCAATT  
TCTCGGACACTTCTCAGTGTTGTGGAAGCTCATGTGGGCCCTGAGGGCTCATGCCTGGGAAGTGTTGTGGTGGGG  
GCTCCCAGGAGGACTGGCCAGAGAGCCCTGAGATAGCGGGGATCCTGAACTGGACTGAATAAAACGTGGTCTCC  
CACTG



59/5332  
**FIGURE 52**

TCCTGCACTTCTTCCTCGATAGCCGCTGGGGCGCAAGCCGAGAGCGGCTGGCTATCAGCAAGGACCAGCGAGCAG  
TACGGAGTGTTCCAGGGCTGCCCCCTGCTGCTGGCTGCTGACCGGCTGCTGACCGGCTGCCACCTGAGTGTGGATG  
TGGTCCTGGGCGACGTGGCTGTGACCCAGGGCCGCAGCTACTGGGCCTGCGCCGTAGACCCAGCCTCCTACTTGG  
TCAAGGTGGGCGTCGGGCTGGAGAGCAAGCTTCAAGAAAGTTTCCAGGGTGCCCCGATGTGATCAGCCCCAGGT  
ACGACCCGGACAGCGGGCACGACAGCGGTGCCGAGGATGCCACAGTGGAGGCGTCGCCACCCTTCGCTTTCCTAA  
CCATTGGCATGGGCAAGATCCTGCTGGGGTCGGGGGCAAGCTCAAACGCAGGGCTGACAGGGAGGGATGGCCCCA  
CAGCCGGCTGCACAGTGCCCCTGCCACCCCGCCTGGGCATCTGCCTGGACTATGAGCGGGGCCGGGTTTCCTTCC  
TGGATGCTGTTTCCTTCCGTGGGCTCTTGGAGTGCCCCCTGGACTGCTCAGGGCCTGTGTGCCCTGCCTTTTGCT  
TCATCGGGGGTGGCGCAGTACAGCTCCAGGAGCCAGTGGGCACTAAGCCTGAGAGGAAAGTCACCATTGGGGGCT  
TCGCCAAGCTGGACTGA

60/5332  
**FIGURE 53**

CACACCCCCACTGGGCTCCTGCATTAAGCCCGGGTTTCGCAGCCGCAGCCGGGATCGGGCACCCAGGGGCGGGCG  
GGCACGGTAGGGCCATGGCAGAGGGTGAGGATATGCAGACCTTCACTTCCATCATGGACGCACTGGTCCGCATCA  
GTACCAGCATGAAGAACATGGAGAAGGAACTGCTGTGCCCAGTGTGTCAAGAGATGTACAAGCAGCCACTGGTGC  
TGCCCTGTACCCACAACGTGTGCCAGGCCTGTGCCCGAGAGGTCTTGGGCCAGCAGGGCTACATAGGACATGGTG  
GGGACCCAGCTCCGAGCCACCTCTCCTGCCTCCACCCCTTCCACCCGCAGCCCCCGCCTCTCCCGCAGAACTC  
TCCCCAAGCCAGACCGCCTGGACCGGCTGCTTAAGTCAGGCTTTGGGACATACCCTGGGAGGAAGCGAGGTGCTT  
TGCACCCCCAAGTGATCATGTTCCTGTCAGCCTGCCAAGGTGATGTGGAGCTTGGGGAGCGGGGTCTGGCAG  
GGCTTTTCCGGAACCTGACCCCTGGAGCGTGTGGTGGAGCGGTACCGCCAGAGTGTGAGTGTGGGAGGTGCCATCC  
TGTGCCAGTTGTGCAAGCCCCACCCTAGAGGCCACCAAGGGCTGCACAGAGTGCCGCGCCACCTTCTGCAATG  
AGTGCTTCAAGCTCTTCCACCCCTGGGGCACCCAGAAGGCCAGCATGAGCCACCTGCCTACCCTCTCCTTCC  
GACCAAGGGCCTTATGTGCCCAGACCACAAGGAAGAGGTGACCCACTACTGCAAGACATGCCAACGCCTGGTAT  
GTCAACTCTGCCGGGTGCGGCGCACCCACAGCGGGCACAAGATCACACCAGTGCTCAGTGCCTACCAGGCCCTCA  
AGGACAAGCTGACAAAGAGCCTGACATACATCCTGGGAAACCAGGACACGGTACAGACCCAGATCTGTGAGCTGG  
AGGAGGCCGTGAGGCACACCGAGGTGAGTGGTCAGCAGGCCAAGGAGGAGGTGTGCGCAGCTGGTGCGGGGGCTGG  
GGGCTGTGCTGGAGGAGAAGCGGGCATCACTGCTTCAGGCCATTGAAGAAATGCCAGCAGGAGCGGCTGGCCCGTC  
TCAGCGCCCAGATCCAGGAGCACCGGAGCCTGCTGGATGGCTCAGGTCTGGTGGGCTATGCCCAGGAAAGTACTTA  
AGGAAACAGACCAGCCTTGCTTTGTGCAAGCCGCCAAGCAGCTGCACAACAGGATTGCCCGAGCCACTGAAGCCC  
TCCAGACATTCCGGCCAGCTGCCAGCTCCTCCTTCCGCCATTGCCAGCTCGACGTGGGACGTGAGATGAAGCTGC  
TGACAGAGCTTAACTTCTGCGAGTGCTTGAGGCCCGTCATTGACACCCAGCGCACCTTTGCCTATGATCAGA  
TCTTCCTGTGCTGGCGGCTGCCCCCCCCATTACCACCTGCCTGGCACTATACCGTTGAGTTCCGGCGCACGGATG  
TGCCTGCTCAGCCAGGCCCCACCCGCTGGCAGCGCGGGAGGAGGTGAGGGGCACCAGTGCCCTGCTTGAGAACC  
CCGACACGGGCTCTGTGTATGTGCTGCGTGTCCGCGGCTGCAACAAGGCCGGCTACGGCGAATACAGTGAAGATG  
TGCACCTGCACACGCCCCCGGCACCTGGAATACAAAACCTTAGCCAGGCGTGTTGGTGGTGCCTACAATTCCAGC  
TACTCGGGAGGCTGAGGTAGGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGCGCCACT  
GGACTCCAGCCTGGACAACAGAGCAAGACTCCGACGTCTCGGAAAAATAAATAAATAAA

61/5332  
**FIGURE 54**

GCATGCGCATAGCTAACCGCACCCGGTTCAGCTCGCCTTTCTTGGCCAGAGGCGCCGGTTGGACTCACGGGCGGG  
GCATGATGGTGGTGGGTACGGGCACCTCGCTGGCGCTCTCCTCCCTCCTGTCCCTGCTGCTCTTTGCTGGGATGC  
AGATGTACAGCCGTCAGCTGGCCTCCACCGAGTGGCTCACCATCCAGGGCGGCCTGCTTGGTTTCGGGTCTCTTCG  
TGTTCTCGCTCACTGCCTTCAATAATCTGGAGAATCTTGCTTTGGCAAAGGATTCCAAGCAAAGATCTTCCCTG  
AGATTCTCCTGTGCCTCCTGTTGGCTCTCTTTGCATCTGGCCTCATCCACCGAGTCTGTGTCACCACCTGGTATC  
TTCATCTTCTCCATGGTTGGTCTGTACTACATCAACAAGATCTCCTCCACCCTGTACCAGGCAGCAGCTCCAGTC  
CTCACACCAGCCAAGGTCACAGGCAAGAGCAAGAAGAGAACTGACCCTGAATGTTCAATAAAGTTGATTCTTTG  
T

62/5332  
**FIGURE 55**

GCCACCACCAATGCCCAAGGGAAAGGCTGAAGGGGATCCTAAAGGAGATAAAGCCAAGGTGAAGGACGAACCACAA  
AGGAGATCCGCGAGGTTGTCTGCTAAACCTTCTTCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAG  
AAGGGAGAGAAGGTACTCAAAGAGAAGAAGGGAAAAGCTGATGCTGGAAAGGAGGGGAATAACCCTGCAGAAAAT  
GGAGATGCCAAAACAGACCAGGAACAGAAAGCTGAAGGTGCTGGAGATGCCAGAGGAAGTGTGTGCATTTTTTGAT  
AACTGTGTACTTCTGGTGAGTGACAGTTTGAAATACTATTTTGTATCAAGTTTTATAAAAATGCAGATTTTTTCA  
GATTTTTTTTTTTTTTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGCTTTTAGGAGAAGGAGCAAA  
TGTCATAATAGAATGTCTCTGAAGCTGGATTGATATGGGGAAATCGTCTTTTCCTTCTAGTTCCGAGAGACTTC  
CTCTTGGCTCCCAGGAGGAGGGATTCCCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGAAAGG  
GAAAAGCAAATTTGTTTTATGTCCTCTTCTCCCTTTCCATCTTTCAGCATAGACTTAACCTCCCTTAAGCCCAGA  
CATCTATTGGAACCTGACCTCCAATCATTGGTTACTAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGTCACTG  
AGATGGCACCTGTCAAAAAAGTAGTGGTTCTGTTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTAATT  
TCACTTCCTGAAAGTCAGGGTTGACTTGTGAAAAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACTCTCAC  
TCTAAACTTTCCCTGTTTCAGATCATCAGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTCTGGTAGT  
CCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAATGATTGTCTGCCATGTCCTGCCTGAAATACCAT  
GATTGTTTATGCAAAGTATCTTTAATAAACTGGATACAGTTAGGCTTGG

63/5332  
**FIGURE 56**

GGCCCTTCCACCTTTTGTGGGCACTCAAGTTCGGACCTCTGGGATCGGCGATTCCCCCTCTGGCCAGGGCTGGTTT  
TAATGCTCTCCGTGGGCGGGCTTCGGTTGAGTTTGGTCCGCTTTTCCTTTCTGCTCCTCAGGGGAGCATTGCTTC  
CTTCTCTCGCAGTGACCATGACGAAATTAGCGCAGTGGCTTTGGGGACTAGCGATCCTGGGCTCCACCTGGGTGG  
CCCTGACCACGGGAGCCTTGGGCCTGGAGCTGCCCTTGTCTGCCAGGAAGTCCTGTGGCCACTGCCCCGCCTACT  
TGCTGGTGTCCGCCGGCTGCTATGCCCTGGGCACTGTGGGCTATCGTGTGGCCACTTTTCATGACTGCGAGGACG  
CCGCACGCGAGCTGCAGAGCCAGATACAGGAGGCCCGAGCCGACTTAGCCCGCAGGGGGCTGCGCTTCTTGACAGC  
CTAACCCCATTCCTGTGCGGACAGCCCTTCCTCCCATTTCCCATTAAGAGCCAGTTTATTTTCT

64/5332  
**FIGURE 57**

GTAGGTCCCGGCAACCGCAGGCTCGCGGCGGGCGCTGGGCGCGGGATCCGACTCCAGTCGTAATCGAGGCGGGCG  
GCTTTCTGGACTCGCTCATTTACGGAGTCATGCACATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGC  
CCTTTCTCACCACGGAAGTCAACAACCTGGGCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATCG  
TCGTCAACACAGTGGGTGCTGCGCTTCAGACCCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGAAGCGTG  
TTGTGCTCCTACAGACTGCAACCTGCTAGGGGTCTTCTCCTGGGTATGGCTACTTTTGGCTCCTGGTACCCA  
ACCCTGAGGCCCCGGCTTCAGCAGTTGGGCCTCTTCTGCAGTGTCTTCACCATCAGCATGTACCTCTCACCCTGG  
CTGACTTGGCTAAGGTGATTCAAATAAATCAACCAATGTCTCTCCTACCCACTCACCATTGCTACCCCTTCTCA  
CCTCTGCCTCCTGGTGCCTCTATGGGTTTCGACTCAGAGATCCCTATATCATGGTGTCCAACCTTTCAGGAATCG  
TCACCAGCTTTATCCGCTTCTGGCTTTTCTGGAAGTACCCCCAGGAGCAAGACAGGAAGTACTGGCTCCTGCAAA  
CCTGAAGGCTGCTCATCTGACCACTGGGCACCTTAGTGCCAACCTGAACCAAAGAGACCTCCTTGTTTCAGCTGGG  
CCTGCTGTCCAGCTTCCCAGGTGCAGTGGGTGTGGGAACAAGAGATGACTTTGAGGATAAAAGGACCAAAGAAA  
AAGCTTTACTTAGATGATTGATTGGGGCCTAGGAGATGAAATCACTTTTATTTTTTAGAGATTTTTTTTTTAA  
TTTTGGAGGTTGGGGTGCAATCTTTAGAATATGCCTTAAAAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAG  
CACTTTGGGAGGCCAAGGTGGGCGGATCGCCTGAGGTGAGGAGTTCAAGACCAACCTGACTAACATGGTGAAACC  
CCATCTCTACTAAAAATACAAAATTAGCCAGGCATGATGGCACATGCCTGTAATCCCAGATACTTGGGAGGCTGA  
GGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCGTGCCATTGTGATATGAATATGC  
CTTATATGCTGATATGAATATGCCTTAAAATAAAGTGTTCCCCACCCCTG

65/5332  
**FIGURE 58**

CCCAGGTTCCGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGTGGACATCATCTGTCCGCACTAT  
GAAGATCACTCTGTGGCAGACGCTGCC**ATG**GAGCAGTACATACTGTACCTGGTGGAGCATGAGGAGTACCAGCTG  
TGCCAGCCCCAGTCCAAGGACCAAGTCCGCTGGCAGTGCAACCGGCCAGTGCCAAGCATGGCCCGGAGAAGCTG  
TCTGAGAAGTTCCAGCGCTTCACACCTTTACCCCTGGGCAAGGAGTTCAAAGAAGGACACAGCTACTACTACATC  
TCCAAACCCATCCACCAGCATGAAGACCGCTGCTTGAGGTTGAAGGTGACTGTCAGTGGCAAAATCACTCACAGT  
CCTCAGGCCCATGACAATCCACAGGAGAAGAGACTTGACAGCAGATGACCCAGAGGTGCGGGTTCTACATAGCATC  
GGTCACAGTGCTGCCCCACGCCTCTTCCCACTTGCTGGACTGTGCTGCTCCTTCCACTTCTGCTGCTGCAAACC  
CCG**TGA**AGGTGTATGCCACACCTGGCCTTAAAGAGGGACAGGCTGAAGAGAGGGACAGGCACTCCAAACCTGTCT  
TGGGGCCACTTTTCAGAGCCCCCAGCCCTGGGAACCACTCCCACCACAGGCATAAGCTATCACCTAGCAGCCTCAA  
AACGGGTCAGTATTAAGGTTTTCAACCGGAAGGAGGCCAACCGCCGACAGTGCCATCCCCACCTTCACCTCGG  
AGGGATGGAGAAAGAAGTGGAGACAGTCCTTTCCACCATTCCTGCCTTTAAGCCAAAGAAACAAGCTGTGCAGG  
CATGGTCCCTTAAGGCACAGTGGGAGCTGAGCTGGAAGGGGCCACGTGGATGGGCAAAGCTTGTCAAAGATGCCC  
CCTCCAGGAGAGAGCCAGGATGCCCAGATGAACTGACTGAAGGAAAAGCAAGAAACAGTTTCTTGCTTGGAAAGCC  
AGGTACAGGAGAGGCAGCATGCTTGGGCTGACCCAGCATCTCCAGCAAGACCTCATCTGTGGAGCTGCCACAGA  
GAAGTTTGTAGCCAGGTACTGCATTCTCTCCCATCCTGGGGCAGCACTCCCCAGAGCTGTGCCAGCAGGGGGGCT  
GTGCCAACCTGTTCTTAGAGTGTAGCTGTAAGGGCAGTGCCCATGTGTACATTCTGCCTAGAGTGTAGCCTAAAG  
GGCAGGGCCCACGTGTATAGTATCTGTATATAAGTTGCTGTGTGCTGTCCTGATTTCTACAACCTGGAGTTTTTT  
TATACAATGTTCTTTGTCTCAAAATAAAGCAATGTGTTTTTTTCGG

GGAGCTGGGAAGCGGAGAACCCGGGAGCGCGGGGCTCAGTCGGGGGGCGCGCGCGGCTCCGGGGATGGC  
GGCGGCTCCGCTGCTGCTGCTGCTGCTGCTGCTCGTGCCCGTGCTGCCGCTGCTGCCCAAGGGCCCCGGAGG  
GGCGCTGGGAAACCGGCATGCGGTGTACTGGAACAGCTCCAACCAGCACCTGCGGCGAGAGGGCTACACCGTGTGCA  
GGTGAACGTGAACGACTATCTGGATATTTACTGCCCGCACTACAACAGCTCGGGGGTGGGCCCCGGGGCGGGACC  
GGGGCCCCGAGGCGGGGCGAGCAGTACGTGCTGTACATGGTGAGCCGCAACGGCTACCGCACCTGCAACGCCAG  
CCAGGGCTTCAAGCGCTGGGAGTGCAACCGGCCGACGCCCCGCACAGCCCCATCAAGTTCTCGGAGAAGTTCCA  
GCGCTACAGCGCCTTCTCTCTGGGCTACGAGTTCCACGCCGGCCACGAGTACTACTACATCTCCACGCCCACTCA  
CAACCTGCACTGGAAGTGTCTGAGGATGAAGGTGTTCTGCTGCTGCGCCTCCACATCGCACTCCGGGGAGAAGCC  
GGTCCCCACTCTCCCCCAGTTCACCATGGGCCCAATATGAAGATCAACGTGCTGGAAGACTTTGAGGGAGAGAA  
CCCTCAGGTGCCCCAAGCTTGAGAAGAGCATCAGCGGGACCAGCCCCAACCGGAACACCTGCCCTTGCCCGTGGG  
CATCGCCTTCTTCTCATGACGTTCTTGCCCTCCTAGCTCTGCCCTCCCTTGGGGGGGAGAGATGGGGCGGG  
GCTTGAAGGAGCAGGGAGCCTTTGGCCTCTCCAAGGAAGCCTAGTGGGCCTAGACCCCTCCTCCCATGGCTAG  
AAGTGGGGCCTGCACCATACATCTGTGTCCGCCCTCTACCCCTTCCCCCAGCTAGGCACTGTAGTGGAACAA  
GCACGGGGACAGCCATGGGTCCCGGGCGGCCTTGTGGCTCTGGTAATGTTTGGTACCAAACCTTGGGGGCCAAAAA  
GGGCAGTGCTCAGGACTCCCTGGCCCCGTGTACCTTTCCCTGACTCCTGGTGCCCTCTCCCTTTGTCCCCCAGA  
GAGACATATGCCCCCAGAGAGAGCAAATCGAAGCGTGGGAGGCACCCCCATTGCTCTCCTCCAGGGGCAGAACAT  
GGGGAGGGGACTAGATGGGCAAGGGGCAGCACTGCCTGCTGCTTCCCTTCCCTGTTTACAGCAATAAGCACGTCC  
TCCTCCCCCACTCCCACTTCCAGGATTGTGGTTTGGATTGAAACCAAGTTTACAAGTAGACACCCCTGGGGGGG  
GGGCAGTGGACAAGGATGGCAAGGGGTGGGCATGGGGTGCCAGGCAGGCATGTACAGACTCTATATCTCTATAT  
ATAATGTACAGACAGACAGAGTCCCTTCCCTCTTTAACCCCTGACCTTTCTTGACTTCCCTTCAGCTTCAGAC  
CCCTTCCCCACCAGGCTAGGCCCCCCACACCTGGGGGACCCCTTGGCCCTCTTTTGTCTTCTGTGAAGACAGGA  
CCTATGCAACGCACAGACACTTTTGGAGACCGTAAACAACAACGCCCTCCCTTCCAGCCCTGAGCCGGGAAC  
CATCTCCAGGACCTTGGCCTGCTCACCCTATGTGGTCCCACCTATCCTCCTGGGCCTTTTCAAGTGCTTTGGC  
TGTGACTTTTCACTCTGCTCTTAGTCT



67/5332  
**FIGURE 60A**

CGCCGCGCGAGGAGGAGGGGTGGGGGTAGCGGCGGCGCCCGCGGCCCGGAGCGGGGGTTGGGGGAGTAGAGAAAAG  
CGGGGCGCGCGGAGGAACGCTGGGTCCCCGGCGCGCGGGAGCTGGGAGGACCGAGCCGGCCGAGCGAGCAGCGC  
GGCAGCACAGTCCCCGCGTGGCGCAGCGCGGGGACGCGGGGACCGCCCGGATCTCCTTCCACTGCGCCCCGC  
GCTCTGCGGTCTCGGCCGCTCTTCTTCTTCACTCACTGCCCCGGCGGGAGCGGCGCCCAAGTCGGGTGCGCC  
ATGTCTGGGGCCGGGTAGCCCCGCCGCCGCCCGGCCCGCCAGCTCGCCCTCCGAGCCACCCGCCAGCGGGCCGGC  
CGGCCGGGAAGCGCGGGACAGGCAGATGCAGTGAGTGAGGGGGGGCCATGGCGGAGGAGCGGCCCCCCCCGGCTG  
GTGGATTACTTCGTGGTAGCTGGGCTTGACAGGGAACGGAGCACCCATCCCTGAGGAAACGTGGGTTCCTGAACCC  
AGTGGGCCCCCTGCGCCCTCCCCGGCCAGCTGAGCCCATCACAGATGTGGCAGTCATCGCTAGGGCACTGGGCGAG  
GAAGTGCCCCAGGGCTACACATGCATCCAGGCTTCTGCTGGGGGCCACCCCTTGGAAGTCACTGCTGGACTTCTG  
GGTGGAAGTCAACCGTCACTGCTACCGCAGGGGCGGTGACAAGCCCCCTCGTTGAGCTGGGGGTGTTGTAT  
GAGGGGAAGGAACGTCCCAAGCCTGGCTTCCAAGTGCTTGACACGACACCCCTACAGCCACTCAGCAAACCTGGCC  
CCTCCAGGCCCCGGGCACCCCGCACCTACCTCACTTACCGGCGGGCAGCAGAGGGGGCAGGGCTGCATGCCCTG  
GGCATCACTGACCTCTGCCTGGTGCTGCCAGTAAGGGCGAGGGCACTCCTCATACTTACTGCCGGCTGCCCCGC  
AACCTCAACCTTGGCATGTGGGGCCAGCAGTGTAACCTGTGCTATAAGGTGGGCCTGGCGAAGGCCAACACGCTG  
GTGTACGAGGCAGTTCTACGAGGCGTTCCCAAGGGCCAGGCTATCAGAGCGACAGGCACGGGCACTGGGCCTGCT  
GAGCGCCGTGGAGCGGGGTGCGGCAGTGGGGGGCAGAGCTGTGCGCAGCCGGCGTGCCATCGCTGTGCTGTCCCCG  
CTGGCCTGCCTTCCCTGCCTTCCGCGCCTTCCCTCACCTTCCCTTACCCTACTCCGTCCTCAGGCCCCCACCGCCT  
ACCCTTGGAAGCGCACATCTCCCACTTCACTTCAACAGTTCCCTTCCCTTCCCCACAGAGACCCCGCATCCTAGT  
GCAGATGTCTCCCTATGACAACCTTGCTCCTCTGTGAGCCTGTATCCTCACCCCTGCCCTCAGTGGTGCCAGCTT  
CCTGCAGCTGCTGCAGAGCCTGGGCCCTGAGCTGGCTATCACACTGCTGCTGGCTGTGCTCACAGAGCACAAGCT  
GCTAGTCCACTCGCTGCGGCCAGACCTGCTCACCAGCGTCTGTGAGGCCCTCGTCTCGATGATCTTCCCACTGCA  
CTGGCAGTGCCCCCTACATTCTCTGTGCCCGCTGGTGCTGGCAGATGTGCTGAGTGCCCCAGTGCCCTTCACTGT  
GGGTATCCACTCCAGCTACTTTGATCTGCATGACCCGCTGCTGATGTCTGTGTAGACCTTGATACCAACAC  
GCTCTTCCAGACTGAGGAAAAGAAGCTCCTCTCCCTCGGACCCTGCCCGCAGACCCTACAAGGTTCTGCTGGC  
CACACTGACAAACCTGTACCAGCAGCTGGACCAGACATACTGGACCTGAGGAGGAAGCATCCCTGGAGTTCCT  
ACTGACAGACTACGAGGCAGTGCTGTGGCCGACGGGCCCCGGCTGGAGCGCAAGTCCAAGGAGCCTTCTCCGCTT  
CATGGCCTGTCTGCTCAAGGGCTACCGGTCTTCTGCGCCCACTCACCCAGGCCCCCTCCGAGGGAGCTCGTGA  
TGTTGACAACCTTTTCTTCTGCAAGGGCTTCTCAAATCCCGGGAACGCTCCAGCCACAACTTTACTCTCAGCT  
GCTGCACACACAGATGTTCTCACAGTTCATTGAGGAGTGCTCTTTTGGCTCTGCTCGCCATGCTGCCCTTGAATT  
CTTTGACTCTTGTTGAAAAGGTCCACCCAGAGCAGGAGAAGCCTGAGCCGACACCCTTAGTGAGCTAGAGGA  
GCTGTGAGGAAGTGAGCTCACTGTCTTTATCACACCTCCCGAGGAGCCTGCCTTACCAGAGGGCAGTGAATCCAC  
TCCCCAGTACTGCTATGATGGATTCCCAGAGCTACGGGCTGAGTTGTTGAGTCTCTTCAAGAGCAACCTGGGGC  
CCTGCCTGTGCCAGGCCCTTCCCGTAGCGCCCCAGCAGTCCCTGCTCCTCGCCGTACCAAACAGGAGATGAAAGT  
TGCACAGCGGATGGCACAGAAGTCAGCAGCTGTGCCTGAGCTGTGGGCCCCGGTGCTGCTGGGGCACTGCTATGG  
GCTGTGGTTTCTGTGCTGCTGCTATGTGCGGTGCGCACCCCTCCCCAGTGCAGGCACTGCACACAGCCTACCA  
TGTGCTGCGCCAGATGGAGAGCGGCAAGGTGGTGCTCCCTGATGAGGTGTGTTACCGGGTACTGATGCAGCTCTG  
CTCACACTATGGGCAGCCTGTGCTGTCTGTGCGGGTCATGCTGGAGATGCGTCAGGCAGGCATTGTGCCCCAACAC  
CATCACCTATGGCTACTACAATAAGGCTGTGTTGGAAGCAAGTGCCGTCTGGCACACCAGGTGGGCGTCTGCG  
CTGGGCCAAGCTCCGGAATGTTGCTCTGGGGGCTGCTCAGTTCCGCCAGCCCTTGAGAGAACGGCAACAGCAGCA  
GCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGGAGCAGGTGTGAGCACATCAAGAGGCAGGCAGCTCCCA  
GGCAGAGCCCCATTTGGAGCGCCCTTCCCTACTCGCCCTCTTCAGCGCCAGACTACTTGGGCTGGGCGAAGTCT  
GAGAGACCCAGCCTCACCCCTGGACGCTGGTGAAGAGTGCTAGCCTGGGCAGTGCCGAGGGGCACAGCCAC  
TGTGGAGGCCGGTGTGGCCACATGATAGAGGCTTGGGGGTCTTGAACCCCGGGGATCACCTGTGCCCTGGCA  
CGATGGAAGTCTCTCAGACCTGAGCCTGACAGGGGAGGAGCCGCTCCCTGGAGGCAGCCAGGGGGCTCAGGCTC  
AGCCCTGAGTGCCAGTCCACTGAGGCCCTGGAAGGGCTAAGTGGGCGGGGACCCAAGGCTGGTGGGCGACAGGA  
TGAGGCAGGCACCCCCGACGAGGGCTGGGTGCCCCGCTCCAACAGCTGCTCACTCCTTCCCGCCACTCCCTGC  
CTCCCGCATTCCCCACCTGAGCTGCCTCCTGACCTGCCACCCCCAGCCCGCGCAGCCCCATGGACAGTCTTCT  
GCACCCCCGGGAGCGCCCTGGATCCACTGCCTCCGAGAGCTCAGCCTCTCTGGGCAGTGAGTGGGACCTCTCAGA

68/5332  
**FIGURE 60B**

ATCTTCTCTCAGCAACCTGAGTCTTCGCCGTTCCCTCAGAGCGCCTCAGTGACACCCCTGGATCCTTCCAGTCACC  
TTCCCTGGAAATTCTGCTGTCCAGCTGCTCCCTGTGCCGTGCCTGTGATTGCTGGTGTATGATGAGGAAATCAT  
GGCTGGCTGGGCACCTGATGACTCTAACCTCAACACAACCTGCCCTTCTGCGCCTGCCCTTTGTGCCCTGCT  
CAGTGTCCAGACCCCTTGATTCCCGGCCAGTGTCCCCAGCCCCAAATCTGCTGGTGCCAGTGGCAGCAAAGATGC  
TCTGTCCCTGGTGGTCTTGGCCCTGTGCTCAGTGACCGAAGGCTCTGCCTTGCTCTGGATGAGCCCCAGCTCTG  
CAACGGGCACATGGGGGAGCCTCCCGGCGGGTTGAGAGTGGGGCATGGGCATACCTGAGCCCCCTGGTGTGCG  
TAAGGAGCTGGAGTCGCTGGTAGAGAACGAGGGCAGTGAGGTGCTGGCGTTGCCTGAACTGCCCTCTGCCACCC  
CATCATCTTCTGGAACCTTTTGTGGTATTTCCAACGGCTACGCCTGCCCAGTATTCTACCAGGCCTGGTGTGCG  
CTCCTGTGATGGGCCTTCGCACTCCAGGCCCATCTCCTTGGCTAACCCCTGATCCAGCCTCTGTTTCAGGTACG  
GCTGCTGTGGGATGTACTGACCCCTGACCCCAATAGCTGCCACCTCTCTATGTGCTCTGGAGGGTCCACAGCCA  
GATCCCCCAGCGGGTGGTATGGCCAGGCCCTGTACCTGCATCCCTTAGTTTGGCACTGTTGGAGTCAGTGTGCG  
CCATGTTGGACTCAATGAAGTGCACAAGGCTGTGGGGCTCCTGCTGGAACTCTAGGGCCCCCACCCTGGCCT  
GCACCTGCAGAGGGGAATCTACCGTGAGATATTATTCCTGACAATGGCTGCTCTGGGCAAGGACCACGTGGACAT  
AGTGGCCTTCGATAAGAAGTACAAGTCTGCCTTTAAACAAGCTGGCCAGCAGCATGGGCAAGGAGGAGCTGAGGCA  
CCGGCGGGCGCAGATGCCCACTCCCAAGGCCATTGACTGCCGAAAATGTTTTGGAGCACCTCCAGAATGCTAGAG  
ACCTTAAGCTTCCCTCTCCAGCCTAGGGTGGGGAAGTGAGGAAGAAGGGATTCTAGAGTTAAACTGCTTCCCTGT  
TGCCTTCATGGAGTTGGGAACAGGCTGGGAAGGATGCCCAGTCAAAGGCTCCAAGCGAGGACAACAGGAAGAGGG  
ATCCACTGTTACCAAAAGTCTGATTCCCCCATCACCAACCTACCCAGTTTGTTCGTGCTGATGTTGGGGGAGAT  
CTGGGGGGAGTTGGTACAGCTCTGTTCTTCCCTTGTCTATACCGGGAACCTCCCTCCAGGGTACCCACAGATCT  
GCATTGCCCTGGTCATTTTAGAAGTTTTTGTAAAAACAACCTGGAAAGATGCAGAGCTACTGAGCCTTTGCC  
CTGAATGGGAGGTAGGGATGTCAATTCTCCACCAATAATGGTCCCTCTTCCCTGACGTTGCTGAAGGAGCCCAAGG  
CTCTCCATGCCTTTCTACCTAAGTGTGTTGTTTTATTTTAAATTATTTATTCTGGAGCCACAGCCCCCTTGCTT  
ATGAGGTTCTTATGGAGAGTGAGAAAGGGAAGGGAATAGGGCACCATGGTCCGGTGGTTGTAGTTCCTTCAA  
GTCAGGCACTGGGAGCTAGAGGAGTCTCAAGCTCCCCTTAGGAAGAACTGGTGCCCCCTCCAGTCCTAATTTTTC  
TTGCTGCCCGCCTTGGGGAATGCCTCACCCACCAGTCTGACCTGTGCAATAAGGATTGTTCCCTGCGAAG  
TTTTGTTGGATGTAAATATAGTAAAAGCTGCTTCTGTCTTTTTT

69/5332  
**FIGURE 61**

ATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATAACCGGCCTCCATGGGAGCTATT  
TAAAGCAGGTAGGCAAGTGAGCACTGCAGCCAATGCCACTGTATCCCTTGAGGTATTCTGGATGGTGAATGGA  
CCCCAAAGGTATGTGTTCTCACTGCTGTGGGTACTGAATGCCAAAGAATTTCTGGGCTGGTGTGGGATTGTGT  
GCAGGTTACAGGAGCAGGACTCCTTCCCACCTGCTTCTGCTTCCTGTCCTGCCTTACTGGCTCTTTCTCCAACCTC  
TCCCATCACCAGTCTTTCTCTTTCAAGTACCTGCTATTGAGGGAGAACTTGCTAGATGACAAGCATTGCTGAAGC  
CATGGGATGCTAAGAAGCTATCCTCATCCTCTTCCCGACCTCGGTCCTGTGAAGTCCCTGGAATTAACATCTTTC  
CATCTCCTGACCAGCCTGCCAATGTGCCTGTCTTCCCACCTGCCATGAACACGGGGGGCTCCCTACCTGACCTCA  
CCAACCTGCACTTTCCCCCACCCTGCCCACCCCTGGACCCTGAAGAGACAGCCTACCCTAGCCTGAGTGGGG  
GCAACAGTACCTCCAATTTGACCCACACCATGACTCACCTGGGCATCAGCAGGGGCATGGGCCTGGGCCCAGGCT  
ATGATGCACCAGGACTTCATTACCTCTCAGCCACCCATCCCTGCAGTCCTCCCTAAGCAATCCCAACCTCCAGG  
CTTCCCTGAGCAGTCCTCAGCCCCAGCTTCAGGGCTCCCACAGCCACCCCTCTCTGCCTGCCTCCTCCTTGCCCC  
GCCATGTACTGCCACCACTCCCTGGGCCACCCCTCACTCAGTGCTCCGGCTCTCTCCTCCTCCTCTTCCTCCT  
CCTCCACTTCATCTCCTGTTTTGGGCGCCCCCTCTTACCCTGCTTCTACCCCTGGGG

70/5332  
**FIGURE 62**

GCCGGAAGCGCGGGAGACCATGTAGTGAGACCCCTCGCGAGGTCTGAGAGTCACTGGAGCTACCAGAAGCATCAT  
GGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGCCTGTGGG  
GCTGGAGGTGAAGTTGGGGCCCTGGTGTCTGCTGGTGTCTCACCTCCTCTGCAGCCTGGTGCCCATCTGTGT  
GCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGCCTAGTAAGCTGTTTCGC  
GGGGGGCGTCTTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGGCTGCCATAGATGAGGCCCTGGC  
AGCCTTGACGTGACGCTCCAGTTCCCACTGCAAGAGTTCATCCTGGCCATGGGCTTCTTCTGGTCTGTGGTAT  
GGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTCACCTCTGGAGGAAACAAGGGCTCTGCTGGGAAC  
AGTGAATGGTGGGCGCAGCATTGGCATGATGGGCCAGGGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCTC  
AGCCTTGCGTGCCTGTGTACTGGTGTCTCCCTGGCCCTCCACTCCGTGTTTCGAGGGGCTGGCGGTAGGGCTGCA  
GCGAGACCGGGCTCGGGCCATGGAGCTGTGCCTGGCTTTGCTGTCTCCACAAGGGCATCCTGGCTGTGACCTGTCT  
CCTGCGGCTGTTGCAGAGCCACCTTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGATGACACC  
TCTAGGCATCGGGCTGGGTGCAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCCAGTCTGTGCTAGA  
GGGCATGGCAGCTGGCACCTTTCTCTATATCACCTTTCTGGAAATCCTGCCCCAGGAGCTGGCCAGTTCTGAGCA  
AAGGATCCTCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCTATCCAAATCTAGGG  
GGCTTCAAGAGAGGGGCGAGGGGAGATTGATGATCAGGTGCCCTGTTCTCCCTTCCCTCCCCAGTTGTGGGGAA  
TAGGAAGGAAAGGGGAAGGGAAATACTGAGGACCAAAAAGTTCTCTGGGAGCTAAAGATAGAGCCTTTGGGGCTA  
TCTGACTAATGAGAGGGAAGTGGGCAGACAAGAGGCTGGCCCCAGTCCAAGGAACAAGAGATGGTCAAGTCGCT  
AGAGACATATCAGGGGACATTAGGATTGGGAAGACACTTGACTGCTAGAATCAGAGGTTGGACACTATACATAA  
GGACAGGCTCACATGGGAGGCTGGAGGTGGGTACCCAGCTGCTGTGGAACGGGTATGGACAGGTCATAAACCTAG  
AGTCAGTGTCTGTTGGTCTTAGCCCATTTAGCACCCCTGCCACTTGGAGTGGACCCCTCCTACTCTTCTTAGCG  
CCTACCCTCATACCTATCTCCCTCCTCCCATCTCCTAGGGGACTGGCGCCAAATGGTCTCTCCCTGCCAATTTTG  
GTATCTTCTCTGGCCTCTCCAGTCTGCTTACTCCTCTATTTTTAAAGTGCCAAACAAATCCCTTCTCTTTCT  
CAAAGCACAGTAATGTGGCACTGAGCCCTACCCAGCACCTCAGTGAAGGGGGCTGCTTGCTCTTTATTTTGGTC  
CCGGATCCTGGGGTGGGGCAGAAATATTTCTGGGCTGGGGTAGGAGGAAGGTTGTTGCAGCCATCTACTGCTGC  
TGTACCCTAGGAATATGGGGACATGGACATGGTGTCCCATGCCAGATGATAAACACTGAGCTGCCAAAACATTT  
TTTTAAATACACCCGAGGAGCCCAAGGGGGAAGGGCAATGCCTACCCCCAGCGTTATTTTTGGGGAGGGAGGGCT  
GTGCATAGGGACATATTCTTTAGAATCTATTTTATTAAGTACCTGTTTGGGACCTGTTACCCAAATAAAAGAT  
GTTTCTAG

71/5332  
**FIGURE 63**

AGAAAGAAAAGGTGTAGTGTTTGGGGAGGTCAACGGGCTATGCTGGCTTGACAGGGCTGGGCTCTTCAGAACAGA  
AGCATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCCAGAGGATATCTTCTCGACAGGATCC  
GTCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGGTTCCGGTAACTAGGCTACAGGAACAGGGACTGCAAGGC  
TGGAAGTCCGGTGGGGACCGTGGCTGTGGCCTTCAAGAGAGTGAGCCTGAAGATTTCTTGAAGCTTTTCATTGAT  
CCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGGCATCTCTGAGGACCCCTGCCATCCAGAC  
AGTCCCCCTGCCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTATGAGGCAGGGGCCCTGGAGAGG  
ATGCAGGGGGAAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTAGATCAGTGGAGCCCAGCATTTATGGTG  
CCTGATTCCTGTCATGGTCAGTGAGCTGCCCTTTGATGCTCATGCCACATCCTGCCAGAGCAGGCACCGTAGCC  
CCAGTGCCCTGTACAACCCTGCTGCCCTGTCAAACCCTGTTCCCTGACCGATGAGGAGAAGCGTCTGCTGGGGCAG  
GAAGGGGTTTCCCTGCCCTCTCACCTGCCCCCTCACCAAGGCAGAGGAGAGGGTCTCAAGAAGGTGAGGAGGAAA  
ATCCGTAAACAAGCAGTCAGCTCAGGACAGTCGGCGGCGGAAGAAGGAGTACATTGATGGGCTGGAGAGCAGGGTG  
GCAGCCTGTTCTGCACAGAACCAAGAATTACAGAAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGA  
GCTCAGCTCCGCCAGCTGCAGACGCTAATTGCTCAAACCTTCCAACAAAGCTGCCAGACCAGCACTTGTTTGT  
ATTCTTCTTTTTTCCCTGGCTCTCATCATCTTCCCCAGCTTCAGTCCATTCCAGAGTCGACCAGAAAGCTGGGTCT  
GAGGATTACCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAAATCTGGAGACC  
CAAGTGGTAGAGTCCAGACTGAGGGAGCCACCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTGAG  
AAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATGTGAGCTGGAACA  
GACCTTCCTGGCCCACTTCCTGATCACAAGGAATCCTGGGCTTCCTTATGGCTTTGCTTCCCACTGGGATTCTTA  
CTTAGGTGTCTGCCCTCAGGGGTCAAATCACTTCAGGACACCCCAAGAGATGTCCTTTAGTCTCTGCCTGAGGC  
CTAGTCTGCATTTGTTTGCATATATGAGAGGGTACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTC  
TTTGGGTATAGGGTTGAGGGGAAATAAGTTTTGAGTGAGAAATAACGTTTTAGCTGAAATTGT

72/5332  
**FIGURE 64**

GCGAGGCGCCACCGACGCGGAAGACTATAAGCCCCAGCGGGCGACGACCGAACGCCCCCGGGAACACCGGGCCCC  
GAGCTCGGTCCCGCGCCCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGGCGGGAGCGGAGGTGAGCGGG  
CGCTAGGGCCGCGAGCCCCCGCGGCCCTTCCTCCAGCGCCCTGCGGACCCCGCAGAAGGCGCTCGCCTCCCTAG  
CCCGCAAAAACATATCGATTTTTCTCGCTGTGGCAACGGGGACGTCCTGATAGATCCTCTGCTCCAATAGGCAAC  
TCCGGCCTTCCCTGCCCTGACCTGGAACCTCTGGGAGGGCTGCAGAGTAAGTGCCGCCTCTGCGCTCCGACGGAG  
GCACGAGGCCTGTGGAGTAGGTCCCTCTGTTCCGACAGGTGCGACACTTGGCGCTCCATGCTTGCGGGTGCCGGG  
AGGCCTGGCCTCCCCCAGGGCCGCCACCTCTGCTGGTTGCTCTGTGCTTTCACCTTAAAGCTCTGCCAAGCAGAG  
GCTCCCGTGCAGGAAGAGAAGCTGTCAGCAAGCACCTCAAATTTGCCATGCTGGCTGGTGGAAGAGTTTGTGGTA  
GCAGAAGAGTGCTCTCCATGCTCTAATTTCCGGGCTAAAACTACCCCTGAGTGTGGTCCCACAGGATATGTAGAG  
AAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAAGCTGCCGCTCAGCTTTGATGGAACAACGCTTATTT  
TGGAAGTTCGAAGGGGCTGTCGTGTGTGTGGCCCTGATCTTCGCTTGTCTTGTATCATTTCGTCAGCGACAATTG  
GACAGAAAGGCTCTGGAAAAGGTCCGGAAGCAAATCGAGTCCATATAGCTACATTCCACCCTTGTATCCTGGGTC  
TTAGAGACCCTATCTCAGACAGTGAAAGTGAAATGGACTGATTGCACTCTTGGTTCTTTGGAGCCTTGTGGTGG  
AATCCCCCTTTTCCCCATCTTCTTCTTTTCAGATCATTAATGAGCAGAATAAAAAGAGTAAAATGGT

73/5332  
**FIGURE 65**

GGGAGGAAAACCTTCTTCCTGGCCTGGGCTCCGTGCCGCTCTGTTTGCCAACCGTCCAGTCCCGCCTACCAGTGCC  
GGGCGCTCCCCACCCCTCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGC  
TGCTGATCGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTGCTTTGCAGAGGACAACCTCAACAACACTT  
ACATCTCCACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACCTACAAGTCT  
GGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAG  
TATACGACATCACGGATGAGAAATCTTTCGAGAATATTCAGAAGTGGATGAAAAGCATCAAGGAGAATGCCTCGG  
CTGGGGTGGAGCGCTCTTGCTGGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCG  
ATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTT  
TTAGTTCCCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTA  
CTGACCTGAAAACCTTGTGACAAGAAGAACACCAACAAGTGCTCCCTGGGCTTGAGGACCCCTTTCTTGCCCTCCCCAC  
CCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGAGGGGT  
CACATAGGTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAGCAGAAAAGGAAAAAAGGAAGAGA  
GAGGAAGGGAGAAGGGAGAGGAATGAATTGAGGAAGTGAAAGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAA  
AGGAAGGAGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTCAGGGCAAACATAAATGTAAATACACTGATTT  
ATTCTGTTACTAGATCAGGTTTTAGGGTCCTGCAAAAGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTT  
CTGTCACCTTGTCTATGGTCTTTCTTGGTATTAAAGGCCACCATTTCACAAAAA

74/5332  
**FIGURE 66**

CCTTTCCGGCGGTGACGACCTACGCACACGAGAACATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAG  
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAG  
GATGCTATAAAATCACCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT  
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTTAAAAGCACTCTG  
AGTCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT



75/5332  
**FIGURE 67**

ACTCAGGCAGCAGCCCCCTTCTTTCTTGCCCCAGTCTCCAGTTCTCCAGTGTTTACAGGTGAGCCTACCAACAGCC,  
ACTGCTCATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAGGAGAATGCTCTGGATCGGGC  
AGAGCAAGCTGAAGCTGAGCAGAAGCAGGCAGAAGAAAGAAGTAAACAGCTGGAGGATGAGCTGGCAGCCATGCA  
GAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCTGAAGCTTTGAAGGATGCCCAGGAGAAGCTGGA  
ACTGGCAGAGAAGAAGGCTGCTGATGCTGAGGCTGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGA  
AGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGA  
GAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGGAAATCCA  
ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCAT  
TGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCTAAGTGTTCTGAGCTGGAGGAGGAGCT  
GAAGAATGTCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGATAAATATGA  
GGAAGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGC  
CAAGCTGGAAAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCCAGAACTGAAGTACAAGGCCATTAGCGA  
GGAGCTGGACCACGCCCTCAATGACATGACCTCTATATTAATTATCACCGTTTCTGCTCTGTTCTGGATCTGCCCC  
CTTTACTCCTCGGGGAACCCAAGGCCCCACTCTCGCTCTGGATTCCATTTGGGTCAGCCTGGCTGGTCCCCAAGG  
CATTAGGATGGGGGAGCAAAAAGCAACTTATGTATTTTCTTCCACCCCCACCCCAAATTAAAAATGTTAAGCTGCT  
GGA

76/5332  
**FIGURE 68**

GTCAGGGGGAAGCTGGAAGGCGTCGTTCTCCTTTCCAGCTCTCCTGCCTGTCCGCCATGTTTTCAGGCCGGGTC  
TGGCTTGGTCTTCCCCCGTAAGGAAATGGCCGGGGAGCTCCAGGGGACCCAGGCGCCGTCGCTTCGGCGGAGCCT  
GGGCTGACCAGCCAGGACAGCGGGGTAAACCCGAACAATTCTGCGCGAGGTAGGGAGGCCATGGCGTCCGGCAGT  
AACTGGCTCTCCGGGGTGAATGTGCTGCTGGTGATGGCCTACGGGAGCCTGGACTTGAAAGAGGAGATTGATATT  
CGACTCTCCAGGGTTCAGGATATCAAGTATGAGCCCCAGCTCCTTGAGATGATGATGCTAGACTACTACAACTG  
GAAACCCAGGGAAATCAAAGTTGCTACAACCTATCTGTATAGGATGAAAGCTCTGGATGCCATTTCGTACCTCTGAG  
ATCCCATTTTATTCTGAAGCCGGCATCCCCGTTCCCTTAATGGGCAAGAATTTCCGCTCCTACCTGCTGGATCTG  
CGAAACACTAGTACGCCTTTCAAGGGTGTACGCAAAGCACTCATTGATACCCTTTTGGATGGCTATGAAACAGCC  
CGCTATGGGACAGGGGTCTTTGGCCAGAATGAGTACCTACGCTATCAGGAGGCCCTGAGTGAGCTGGCCACTGCG  
GTTAAAGCACGAATTGGGAGCTCTCAGCGACATCACCAGTCAGCAGCCAAAGACCTAACTCAGTCCCCTGAGGTC  
TCCCCAACAACCATCCAGGTGACATACCTCCCCCTCCAGTCAGAAGAGTAAACGTGCCAAGCACTTCCTTGAATTG  
AAGAGCTTTAAGGATAACTATAACACATTGGAGAGTACTCTGTGACGGAGCTGAAGGACTCTTGCCGTAGATTAA  
GCCAGTCAGTTGCAATGTGCAAGACAGGCTGCTTGCCGGGGCCGCCCTCGGAACATCTGGCCCCAGCAGGCCAGAC  
TGTATCCATCCAAGTTCCCGTTGTATCCAGAGTTCTTAGAGCTTGTGTCTAAAGGGTAATTTCCCCAACCCCTTCCT  
TATGAGCATTTTTAGAACATTGGCTAAGACTATTTTCCCCCAGTAGCGCTTTTTTCTGGATTGTCATTACAGGTGT  
TATTCTTAATGTTTCTGTCAAAGCTTCTTAAAAATCTTCACCTTGTTTTAGCCATAGTTTACCTTCCCTGTTCCA  
GGTTTATTTAATTCCAAAGGTGAGAGTTGGAGTGAGATGTCTTCATATCTATACCTTTGTGCACAGTTGAATGG  
GAACTGTTTGGGTTTAGGGCATCTTAGAGTTGATTGATGGAAAAAGCAGACAGGAACTGGTGGGAGGTCAAGTGG  
GGAAGTTGGTGAATGTGGAATAACTTACCTTTGTGCTCCACTTAAACCAGATGTGTTGCAGCTTTCCTGACATGC  
AAGGATCTACTTTAATTCCACACTCTCATTAAATAAATTGAATAAAAGGGAATGTTTGGCACCTGATATAATCTG  
CCAGGCTATGTGACAGTAGGAAGGAATGGTTTCCCCTAACAAAGCCCAATGCACTGGTCTGACTTTATAAATTATT  
TAATAAAATGAATATTATCAAATAAAACGTATGAATCAGT

77/5332  
FIGURE 69

CCCGACTAAGTGACTTAAACTCCCACCTACTCCTGGAATAAGGAGTCAAAGCCCCGGATAGGCGCAGTATTCTACC  
TTGTAAATACTGTTATTTGTATATACTGTAAATGATGACATCGGTGGGCACTAACCGAGCCCCGGGAAACTGGGA  
ACAACCTCAAACCAAAACCAGACACAGCACAAAGCAGCGGCCACAGGCCACTGCAGAACAAATTAGACTTGCACA  
GATGATTTTCGGACCATAATGATGCTGACTTTGAGGAGAAGGTGAAACAATTGATTGATATTACAGGCAAGAACCA  
GGATGAATGTGTGATTGCTTTGCATGACTGCAATGGAGATGTCAACAGAGCTATCAATGTTCTTCTGGAAGGAAA  
CCCAGACACGCATTTCCTGGGAGATGGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGA  
ATCCAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACGTGGTGGGCCACCAAGACG  
GGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGGTGAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCC  
TTCTGGAAGAGGAACAGAAAGAGGCAGAAGGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCCGAGGAGGAAG  
GTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGAGCCAGCCAATACTGATGATAACTATGG  
CAATAGCAGCGGCAATACGTGGAACAACACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGC  
AACAGAGGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCACTGCCCTCTAATGTGTC  
TTCAGTGCCCTCTGCCTGCGGAGAATGTGACAATCACTGCTGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAA  
GACACCATCTACAATGGAGAATGATTATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGCCCCAGCCTCTGGT  
GTTCAAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACACATTTTTCTCATCACAGTATGGTGAG  
CATGTTAGGGAAAGGATTTGGTGATGTCGGTGAAAGCTAAAGGCGGCAGTACTACAGGCTCCCAGTTCTTGAGCA  
ATTCAAGACTGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCACCACCTCCTCTTG  
GGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAGTATGATTTGAAGAACCCAAGTGATTGAGCAGTGCA  
CAGCCCCCTTTACAAAGCGCCAGGCTTTTACCCCCATCTTCAACCATGATGGAGGTGTTCCCTCAGGAGAAGTCACC  
TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGTCTTCTCCTCTGCCAAGCAAATCCACATCGGCTCCACA  
GATGTCGCTGGATCTTCAGACAACCAGTCTCTAGCCCTCAGCCGGCTCAGCAGAACTGAAACAGCAGAAGAA  
AAAAGCCTCCTTGACTTCTAAGATTCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATATCTCAGGGCTAAA  
CCTGCAAGTTTGGGGCATTGCAGTTTGGGTGAGAGCCTGTCTTTCTGATTATGAGTCCACCCCCACCACGAGCGC  
CTCTTCAAGCCAGGCTCCAAGTAGCCTGTATACCAGCACGGCCAGTGAATCATCCTCTACAATTTTCATCTAACCA  
GAGTCAGGAGTCTGGTTATCAGAGCGGCCCAATTGAGTGCACAACCTATACCTCCCAAATAATGCTCAGGGCCC  
TCTTTATGAACAGAGATCCACACAGACTCGGCGGTACCCAGCTCCATCTCTTCATCACCCCCAAAAGGACCTGAC  
TCAGGCAAAGAATGGCTTCAGTTCTGTGACGGCCACGCAGTTACAGACCACACAATCTGTTGAAGGTGCTACAGG  
CTCTGCACTGAAATCTGATTACCTTCCACTTCTAGCATCCCCCTCTCAATGAAACGGTATCTGCAGCTTCCTT  
ACTGACGACAACCAATCAGCATTATCTCCTCTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCAC  
CACACAACACAGCAGCAGCTTATCTACGCAGCAGAATACCCCTTTCATCATCAACATCTTCTGGGCGCACTTCGAC  
ATCCACTCTTTTGACACAAGTGTGGAGAGTGAGGCGAATCTCCATTCTTCTCCAGCACTTTTTTCCACCACATC  
CAGCACAGTCTCTGCACCTCCCCAGTGGTCACTGCTCTCCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCTCAG  
CCTAGGCAGCAACTCCACTGTACAGCCTCGACTCGAAGCTCAGTTGCTACGACTTCAGGAAAAGCTCCTCCCAA  
CCTCCCTCCTGGGGTCCCGCGTGTGCTTAATCCGTATATTATGGCTCCAGGGCTGTTACATGCCTACCCGCC  
ACAAGTATATGGTTATGATGACTTGAGATGCTTCAGACAAGATTTCATTTGATTACTACAGCATCCCATTTCC  
CACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGCCAGCAACCCTTATTCTGGTGACCTCACAAAGTT  
CGGCCGTGGGGATGCCTCCTCCCCAGCCCCGGCCACAACCTTGCCCCAACCCCAACAGAACCAGACGCAGACTCA  
CCATACCACGCAGCAGACATTCTGAACCCGGCGCTGCCTCCTGGCTACAGTTACACCAGCCTGCCATACTATAC  
AGGGGTCCCGGGCTCCCCAGCACCTTCCAGTATGGGCCTGCTGTGTTCCCTGTGGCTCCTACCTCTTCCAAGCA  
GCATGGTGTGAATGTCAGTGTGAATGCATCGGCCACCCCTTTCCAACAGCCGAGTGGATATGGGTCTCATGGATA  
CAACACTGGAAGAAAATATCCACCCCTTACAAGCATTCTGAGACGGCTGAGAGCTAATTTGGCCCAAGGCTGGG  
GGCTGTGTTTTGTGTGTGTGTATAAATTTGCACTGAAGTCTTGTTCAGAAACCAGACCACTGAGGAGAGCCTGC  
TGAGCTGAGGCCATGGCCTGCGTGGCTTGGGGAAATGAGTTGGTGGATACCTTCTGGGCTTTTGAACCTGCCCCCT  
CCCCATTTCCCTCTCCCCATGTGTCTGACCCTGTCTTACCCATTTCAAGTTCAAGCGGTGCAGCACCTTCGAA  
GCATCAATGCACACACCTGCTGTGCTTTTGATTCTGGAAGGCATGTAGTTTCAACTTGTAACAAAATATTTG  
TAGTCTTCAATAAACTGTGGTATTTCTTTAGCTAAC

78/5332  
**FIGURE 70**

GTCCGGCTTACCGTCGTTTACGACAGTGTGAGGATCGCGGGCTTGCTTTCCGGTAGCGTGGGCTGACGCCTCGCT  
CAATTTCTCACAGGGCTGCGCAGGTTTCCCCCGTCTGCGAATGGACCACTGGAGGGGTTCAAAGGTTGCGGTCCC  
AGTACGGGAATGAGCCTCTTTGATCTCTTCCGGGGCTTTTTTCGGCTTTCCTGGACCTCGGAGCCACAGAGATCCC  
TTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAAGAAGAAGAGGGGCTCATGGGGCCGTGGG  
AACCCAAGGTTCCATAGTCCTCAGCACCCCCCTGAGGAATTTGGCTTCGGCTTCAGCTTCAGCCCAGGAGGAGGG  
ATACGTTTCCACGATAACTTCGGCTTTGATGACCTAGTACGAGATTTCAATAGCATCTTCAGCGATATGGGGGCC  
TGGACCTTGCTTCCCATCCTCCTGAACTTCCAGGTCCTGAGTCAGAGACACCTGGTGAGAGACTACGGGAGGGA  
CAGACACTTCGGGACTCAATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGGGGGGGTCTTGGAGAGT  
GATGCAAGAAGTGAATCCCCCAACCAGCACCAGACTGGGGCTCCCAGAGGCCATTTTCATAGGTTTGATGATGTA  
TGGCCTATGGACCCCCATCCTAGAACCCAGAGAGGACAATGATCTTGATTCCCAGGTTTCCCAGGAGGGTCTTGGC  
CCGGTTCTACAGCCCCAGCCCAAATCCTATTTCAAGAGCATCTCTGTGACCAAGATCACTAAACCAGATGGGATA  
GTGGAGGAGCGCCGGACTGTGGTGGACAGTGAGGGCCGGACAGAGACTACAGTAACCCGACACGAAGCAGATAGC  
AGTCCTAGGGGTGATCCAGAATCACCAGACCTCCAGCCCTGGATGATGCCTTTTCCATCCTGGACTTATTCCCTG  
GGACGTTGGTTCCGGTCCCGGTAGCCTTGTTAACCCTCAGAGGCCTTCAAGTCCTTTCCACCTCTCACCCATTGC  
CCACCATTAAATAAGCTTAGCTTCTCTTGCCACCTCAGGGGCTTGGATATGTGGAATAGTGAAGTGGGGCCATGTC  
AGTTTGTCACCTACCCAAACTGACCAATAAAACCTTTATTTATGCT

79/5332  
**FIGURE 71**

ATGGTCTTCACTCAGGCCCCGGCTGAAATCATGGGCCACCTCCGGATATGCAGCCTCCTGGCCCCGGCAGTGCCTG  
GCAGAGTTTCTGGGTGTGTTTGTACTCATGCTCCTCACCCAAGGAGCTGTGGCCCAGGCTGTCACCAAGTGGAGAA  
ACCAAAGGCAACTTCTTCACCATGTTTCTGGCTGGCTCTCTGGCCGTTACGATAGCCATCTACGTGGGTGGTAAC  
GTCTCAGGTGAGGAGGGTGGGGTCTGGTCATCAGAGCAGGTGGGACGTGCATGTGAGCGTGTCGGTCTGGCGATG  
GTGGAAACGCAAATCCTTCTGTGA

80/5332  
**FIGURE 72**

AGAGGGAGCAGTGAATAGCAATAGGGTGTTCACCAATGGTCTTCACTCAGGCCCCGGCTGAAATCATGGGCCAC  
CTCCGGATACGCAGCCTCCTGGCCCCGGCAGTGCCTGGCAGAGTTTCTGGGTGTGTTGTACTCATGCTCCTCACC  
CAAGGAGCTGTGGCCCCAGGCTGTCACCAGTGGAGAAACCAAAGGCAACTTCTTCACCATGTTTCTGGCTGGCTCT  
CTGGCCGTTACGATAGCCATCTACGTGGGTGGTAACGTCTCAGGGGGCCACCTGAATCCAGCCTTCTCCCTGGCC  
ATGTGCATCGTTGGACGCCCTCCCCTGGGTCAAGCTCCCCATTTACATCTTGGTGCAGTTGCTGTCTGCTTTCTGT  
GCTTCGGGAGCCACCTATGTTCTCTACCATGATGCCCTACAGAACTATACAGGTGGGAACCTGACAGTGAAGTGGC  
CCCAAGGAGACAGCCTCCATTTTTGCCACCTATCTGCCCCCTATCTGTCCCTGAACAATGGCTTCTCGGATCAG  
GTTCTGGGCACTGGGATGCTGATTGTGGGGCTCTTGGCCATCCTGGACAGACGGAACAAGGGAGTCCCTGCGGGT  
CTGGAGCCTGTGGTGGTGGGGATGCTGATCCTGGCCCTCGGGTTATCCATGGGTGCCAACTGCGGGATTCCACTC  
AACCCTGCCCCGGGACCTGGGCCCCACGTCTCTTCACCTACGTGGCTGGCTGGGGTCTCTGAAGTCTTCAGGTGGGAG  
ACAGACTCTCCTGGTGTGGCCTCCACTCACCTTCTCTGCTAAGGGCTCTGTCCCTGGGTCCACAGCACTCTGC  
CTTTAAAAATAGCTCTCTTGGCTTCTTAGGACAGTGTTCTTTCTCCAAGTCATATTCTCCCCCTTTCTCCCTTGCT  
TCCCTCCCAACTTTTTCACTGAAACAGTAAGATTTAGAGGTTGTGTTCTTAGGCATGCCACATTACTTCCATGCAC  
ATTAGTGACTTTCATCAGCAAAATTAATATATTAGATAATTCCCTAAGGCAAGAGGCTGGACCAAGCTCTCCTGG  
GGTTCCTCTTTCTAAATACTATGCTTTGGTGACAAGGCAATCCTCTTCTGGTGTCTACCACCCTGGGAACAAC  
TTAGGGCACTCTCTTGTACTGCCCCCGTCTTGGAGAGGGGAAGGCTAAGGGAGTCACTCCTGATACCTTCCC  
ACTGTCCTTCTTTTGCAGTGCTGGTAATGGCTGGTGGTGGGTGCCTGTGGTGGCCCCCTCTGGTGGGGGCCACCGT  
TGGCACAGCCACTTACCAGCTGTTGGTGGCTCTGCACCACCCTGAGGGCCAGAGCCAGCTCAGGATCTGGTGTCT  
TGCTCAACACAAAGCCTCAGAGTTGAAACTCCTGCCTCAGCTCAGATGCTGGAGTGTAAGCTATGATTAGGACA  
ACCCTCACTTCACTCATGGACCTGGAGCCAGCCACTGACCCCGCTGGGAACAACAGTCATTCTTCTCTTTGT  
TAATGTGCCAGAACCTGGGAGGCTTCTCTGTTTATCTGTTTGGCATCCCTTCTCTCTAAACTAAGAAGGATCCTG  
GACAGGGAGAAGTGGAGGAGGATAAGGTACCAGGACTCAGGCTTCTCATCCCCTCCTCCCGCAAAGCGGTTTTCT  
GACCTCAGGGCTCTCGGAATGTAGTTGCTCGAGGTAACCGCTAGAGGGTGCACACCTGGATGCTGGATGGGGA  
CGGCTGCGGGCATCTGCAGGGTGGAGGGGGCCACCATCCAGTGTAGGGCACAACCCTGGGGACTGCCCTCCATAG  
CCTGTCCCGACTGCCGACTCCTAGCTCTCATCGCCTCGGCGCCTCCACCTTACCCCTCTCGGGGATGCCTCCCC  
AAGAGGGTAGTTAGGGGTGGGGAAGCCGCTCCACCCAGGGGGCGTGGTGGGGGCGGAGGGAAGGAGGGCGGCGG  
GGCACAGAGACAGAGAGCAAGGCTGTGAAACTGAGGCACCGTTCTAGACATCTCGGTGCTGTGTCGTTTATTCA  
AGGAGAGTTGAGATACAGTGAAATGAGCCAGGGCGAGGAGGGAGGGTGAAGGAACGGAGGGCGGGCGGCTCCGAG  
GAGCGAGAGTCGGGCTGAGGGCAACCTGGCGCCAGGGAAAATTCTGGTTATTACCACTTCTACAGCTCTCCTGC  
CGCTCCCTGCAGAGGATGCTCGTTTTGCAGAGAAGGCAGTGTTCTCTATTCCCTTCTTCCGAATTAAAAATACC  
CCCTCAGAGCG

81/5332  
FIGURE 73A

AGCTCGCGGTGTCCCCGAGCGCCGGCGGGGAGGATGGCCTGGGCTGCGGGTGGGGCGCGCGCCCGACGGCTG  
GGGCTCCCCCTCTGAGCGGCTGCGGCTCCTGCACCTCCCCGGGGAGCCGCCCGTCGATGCCACTAAGGCCAAGGA  
CATATAGACGGTCTGCCCTCCCCACTCAAACCGGGATCATGACGGTCCCCAAGGAGATGCCCAGAGAAAGTGGGCC  
CGGGCCCAGGCGCCTCCCTCTTGGAGCCGAAAGAAGCCCTCTTGGGGGACAGAAGAAGAAAGGAGGGCGCGGGCT  
AATGACCGAGAATACAATGAGAAATTCAGTATGCGAGTAAGTGCATCAAGACCTCCAAGTACAATATTCTCACC  
TTCCTGCCTGTCAACCTCTTTGAGCAGTTCAGGAAGTTGCCAACACTTACTTCCTGTTTCTCCTCATTCTGCAG  
TTGATCCCCCAGATCTCTTCCCTGTCCTGGTTCACCACCATTGTGCCTTTGGTTCTTGTCTCACCATCACAGCT  
GTTAAAGATGCCACTGATGACTATTTCCGCCACAAGAGCGATAACCAGGTGAATAACCGCCAGTCTCAGGTGCTG  
ATCAATGGAATCCTCCAGCAGGAGCAGTGGATGAATGTCTGTGTTGGTGATATTATCAAGCTAGAAAAATAACCAG  
TTTGTGGCGGCGGATCTCCTCCTCCTTTCCAGCAGTGAGCCCCATGGGCTGTGTTACATAGAGACAGCAGAACTT  
GATGGCGAGACCAACATGAAAGTACGTCAGGCGATTCCAGTCACCTCAGAATTGGGAGACATCAGTAAGCTTGCC  
AAGTTTGACGGTGAAGTGATCTGTGAACCTCCCAACAACAACTGGACAAATTCAGCGGAACCCCTCTACTGGAAG  
GAAATAAGTTCCCTCTGAGCAACCAGAACATGCTGCTGCGGGGCTGTGTGCTGCGAAACACCGAGTGGTGCTTC  
GGGCTGGTCATCTTTGCAGGTCCCGACACTAAGCTGATGCAAAACAGCGGCAGAACAAAGTTCAAAAGAACGAGT  
ATCGATCGCCTAATGAATACCCTGGTGCTCTGGATTTTTGGATTCTGTTTGCATGGGGGTGATCCTGGCCATT  
GGCAATGCCATCTGGGAGCACGAGGTGGGGATGCGTTTTCCAGGTCTACCTGCCGTGGGATGAGGCAGTGGACAGT  
GCCTTCTTCTCTGGCTTCCCTCTCCTTCTGGTCTACATCATCTCCTCAACACCGTTGTGCCATTCTACTCTAT  
GTCAGTGTGGAGGTGATCCGTCTGGGCCACAGCTACTTCATCAACTGGGATAAGAAGATGTTCTGCATGAAGAAG  
CGGACGCCTGCAGAAGCCCGCACCAACCACCTAAACGAGGAGCTGGGCCAGGTGGAGTACATCTTCTCCGACAAG  
ACGGGCACCCCTCACCCAGAACATCATGTTTTCAACAAGTGCTCCATCAATGGCCACAGCTATGGTGATGTGTTT  
GACGTCTGGGACACAAAGCTGAATTGGGAGAGAGAGGCCCTGAACCTGTTGACTTCTCCTTCAATCCTCTGGCTG  
ACAAGAAGTTCTTATTTTGGGACCCAGCCTGCTGGAGGCTGTCAAGATCGGGGACCCCAACGCATGAGTTCT  
TCCGCCTCCTTTCCCTGTGTCTACTGTCTGTCAGAAGAAAAGAACGAAGGAGAGCTGTACTACAAAAGCTCAGT  
CCCCAGATGAGGGGGCCCTGGTCACCGCAGCCAGGAACCTTTGGTTTTGTTTTCCGCTCTCGCACCCCCAAAACAA  
TCACCGTCCATGAGATGGGCACAGCCATCACCTACCAGCTGCTGGCCATCCTGGACTTCAACAACATCCGCAAGC  
GGATGTGGTTCATAGTGCAGGAATCCAGAGGGGAAGATCCGACTCTACTGCAAAGGGGCTGACACTATCCTACTGG  
ACAGACTGCACCACTCCACTCAAGAGCTGCTCAACACCACCATGGACCACCTTAATGAGTACGCAGGGGAAGGGC  
TGAGGACCTGGTGCTGGCCTACAAGGATCTGGATGAAGAGTACTACGAGGAGTGGGCTGAGCGACGCCTCCAGG  
CCAGCCTGGCCAGGACAGCCGGGAGGACAGGCTGGCTAGCATCTATGAGGAGGTTGAGAACAACATGATGCTGC  
TGGGTGCAACGGCCATTGAGGACAACTTCAGCAAGGGGTTCCAGAGACCATTGCCCTCCTGACACTGGCCAACA  
TCAAGATTTGGGTGCTAACCGGAGACAAGCAAGAGACGGCTGTGAACATCGGCTATTCTGCAAGATGCTGACGG  
ATGACATGACTGAGGTTTTCTATAGTCACTGGCCATACTGTCTGGAGGTGCGGGAGGAGCTCAGGAAAGCCCGG  
AGAAGATGATGGACTCATCCCGCTCCGTAGGCAACGGCTTCACCTATCAGGACAAGCTTTCTTCTTCCAAGCTAA  
CTTCTGTCTGGAGGCCGTTGCTGGGGAGTACGCCCTGGTCAATAATGGTCAACAGCCTGGCCACGCACTGGAGG  
CAGACATGGAGCTGGAGTTTTCTGGAGACAGCGTGTGCCTGCAAAGCTGTATCTGCTGCCGGGTGACCCCTTGC  
AGAAGGCACAGGTGGTAGAAGTGGTCAAGAAGTACAAGAAGGCTGTGACGCTTGCCATTGGAGACGGAGCCAATG  
ATGTCAGCATGATCAAAACGGCTCACATTGGTGTGGGGATCAGTGGGCAGGAAGGGATCCAGGCTGTCTTGGCCT  
CCGATTACTCCTTCTCCAGTTCAAGTTCCCTGCAGCGCCTCCTGCTGGTGCATGGGCGCTGGTCTACCTGCGAA  
TGTGCAAGTTTCTTTGCTATTTCTTCTACAAAACTTTGCTTTACCATGGTCCACTTCTGGTTTGGCTTCTTCT  
GTGGCTTCTCAGCCAGACCGTCTATGACCAGTATTTCAATCACCCTGTATAACATCGTGTACACCTCCCTGCCAG  
TCCTGGCTATGGGGTCTTTGATCAGGATGTCCCCGAGCAGCGGAGCATGGAGTACCCTAAGCTGTATGAGCCGG  
GCCAGCTGAACCTTCTTCTTCAACAAGCGGGAGTTCTTCACTGTCATCGCCAGGGCATCTACACCTCCGTGCTCA  
TGTTCTTCAATCCCTATGGGGTGTGTTGCTGATGCCACCCGGGATGATGGCACTCAGCTGGCTGACTACCAGTCTT  
TTGACGTCACTGTGGCCACATCCTTGGTCATTGTGGTTAGCGTGCAGATTGGGGCTCGACACAGGCTACTGGACGG  
CCATCAACCACTTCTTCTGCTGGGGAAGCCTTGTGTTTACTTTGCCATCCTCTTGGCATGCACAGCAATGGGC  
TCTTCGACATGTTTCCCAACAGTTCGGGTTTGTGGGGAATGCCCAGAACACCTTGGCCAGCCACGGTGTGGC  
TGACCATGTGTCTACACAGTCTGCTGTCATCATGCCCGTGGTTGCCCTCCGATTCTCAGGCTCAACCTGAAGC  
CGGATCTCTCCGACACGGTCCGCTACACACAGCTCGTGAGGAAGAAGCAGAAGGCCAGCACCGCTGCATGCGGC

82/5332  
**FIGURE 73B**

GGGTTGGCCGCACTGGCTCCCGGCGCTCCGGCTATGCCTTCTCCCATCAGGAGGGCTTCGGGGAGCTCATCATGT  
CTGGCAAGAACATGCGGCTGAGCTCTCTCGCGCTCTCCAGCTTCACCACCCGCTCCAGCTCCAGCTGGATTGAGA  
GCCTGCGCAGGAAGAAGAGTGACAGTGCCAGTAGCCCCAGTGCGCGTGCCGACAAGCCCCCTCAAGGGCTGAAGGC  
CGAGGATGGATGCCCTGTGCCAGTGACCAGAGCAGCCAGGGCTGGCCAGTCACTGAGGGAACAGCGTCTCGGAAC  
TGCTGGTCCCTATTTCCTTGCTTCCCGTCCCCCGGTAGACTCTGTCTGCTGGTCCCACCACACATGGCTGGGAC  
ATCTGTTCCCAGCTGTAGGCCCTTCCACCAGCTGGGGAGCTAGAGGGAGCAGGCCCAAGGGCAGAGCAGAGGCTG  
AGGCACGGGGAGCCAGCCCCACTCGGGGACCAGAAGTGGAACCAAAAACAAGAAAAAACTGTGAGAGATTGTGTC  
TGCCCCCTGCCCTGCCCTGGGACCCACAGGGAGACTATAATCTCCTTATTTTTTTACTCCTACTCCCCAGAGGGGCC  
CTAGTGCCCTCTGTTCCCTGAATTACATAAGAATGTACCATGCCGGGAAGCCAGAGACCTGCAGGGGCCTCGGCCCC  
TCACATCGTGTATGTCTCTCCTTGATTTGTGTTGTGTCCAGTTTGGTTTTGTCTTTTTTTATTTGGCAAGTGGAG  
GAGGCTTTTATGTGACTTTTATGTTGTGGTTGGTGTCTTAACCTCTCCTGGGAAAAGGAGGCTGGCACACACTGGG  
ATGCCGAGCCTGGCCGGCTGTGGGGTGGTTTTGGGAGGATCCATGTCCGGCTCTGCCTGCAGTGACCAGTGCTCTG  
TGGGGCAGAGGAGCTGACCAGGGAGGGAGGTACCCATGAGCAGAGGGTAGTGGGAGAGTGTAAAGGAGGGTTTGG  
TCCTGTCTGCTTCCCTACCTTGAGAGTAAAGTGCTGCCCTCTGCCCCCAACACACACACATATCAATTCTGGAT  
TCCTTAGTCCTGCTGGCCTTGGGCTGGAGCCTAGGAAAGTGGCCCCAAATCCTTAGTGAGCTAAAGCTGGGTCT  
GAAATTTGGTCACTGAGGGAGGGGTAGTTTTCTTTCTTTTTCTTTTTCTTTTTTTTTTTTTTTTGTAGATGG  
AGTCTCACTCTTGTACCTAGGCAAGAGTGCAATGGCACAACTCAGCTCACTGCAACCTCCACCTCCTGGGTTTC  
AAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACACACCACCAGCTTGGTTAATTTTTGT  
ATTTTTAGTAGAGATGTTTCACCATGTTGGCCAGGCTAGTCTTGAATTCCTGACCTCCTGACCTGCCCACCTCAA  
CCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCACACCCAGCTCAGGGAGGCGTAGTTTTCTTTAATTTTAA  
ATTTAAACCCAAAGTTTATTGGCAGACTCCCTTTTGACCTCCCTTTGCCTCCCCATCTGGTGCTTTCTTGCATCTA  
CACCCCAGGGCCCTGTGGTGGGGCTGCAGGGGGAAGCTGTGCACCTGAGATGAGGCTGGAACGGGAATTGGCCTC  
TCTGCTCCCTTCTTCAGTAAGCAAGGAGCCCCGCCCCCTCAGGCCCAGCCTCTGGCAAGAGGTGGTGGAAATCCTTG  
TGCCGGGTAGTAGAGGAGGATAAGGGCAAAACCAGGCCCAGGCCAGTGCCTGGCTTGGTCTGGATGGGACACTGT  
CAGAGTTTGGCCACAGCCTGTCTTTTACTTCATCCACACCTATGAAGCTATTCCCTAAATAAGGCATTTCCCAAG  
TTAGTCGCTACCTAATCAGCCTTGAGAAGAATCCTTTCTCTCTTTTGATAGTGGGTCTGGGGGATTCTTCAGGAA  
TGGTTTGGAGCTGGGAGTGGGTAGGGGGATTTTAAATGTTCCATATGGGAGCCCCAAAGGAACTGGATGGGCTGC  
AGTGAGGTGGGGGCGGTGGGCAGGGAATGGGAGAGGGGAAGTCTTGGCAGGGAAATCCCTTTTGGCCACACAGT  
TTACAAACCCAGTATCATGTCTGTCTGTGTCTCTCAAGGTGAGAGTCTGATTTTTATACCAAAGAGGAAATGA  
TTTTTTTTCATATTTTGTGTCTATATTATATAAATATATATATACAGTTATATATATATATATTATTTTTTGG  
TTCTCTCTCGTTTTTTAGGGAGGGGAAGAAAGTACCAAGTTGCATTGAGCTGTAATTAAGGAACATTATAATTTAT  
GACACATTTCTATACTTGCAAAAATTATATCATTTTTATGGATATAAGAGAAAAATGCCTTTTTTATAAAATTTCAA  
TTTCTGA



83/5332  
**FIGURE 74**

CCTACAGAGGGGTCCATACCGTGTGTTCTGGATTCCCGTTGTAACCTAAAGGGAAATTTTCACAATGTCAGAG  
CCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCCTTGCAGCAGGAACCCACTTAGGTGGCACTA  
ATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTACATCATAAATCTGAAGAGGA  
CCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATATCCT  
CCAGGAATACTGGCCAGAGGGCCATGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCACTTCA  
CTCCTGGAACCTTCACTAACCGGATCCAGGCAGCCTTCCGGGAGCCACAGCTTCCTGTGGTTACTGACCCCAGGG  
CTGACCACCAGCCTCTCACGGAGGTATCTTATGTTAACTTACCTACCATTGCGCTGTGTAACACAGATTCTCCTC  
TGCGCTATGTGGACATTGCCATCCCATGCAACAATAAGGGAGCTCACTCAGTGGGTTGGATGTGGTGGATGCTGG  
CTCAGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTCTGCTTCT  
ACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAGAGGCAGTGACCAAGGAGGAATTTCAGG  
GTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTCTGCAGG  
TGCCCTCTGTGTCTATTCACTAGTTCCTTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAG  
CTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGATGGGCTCTTA  
AGCAACATGGAAAAATGGTTGATGGAAAATAAATAAACATCAGTTTCT

84/5332  
**FIGURE 75**

CGCCGCCGCTCCAGCGCCGCGCAGCCACCGCCGCCGCCGCCCTCTCCTTAGTCGCCGCCATGACGACCGCGTC  
CACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTA  
CGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATA  
CTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCG  
AATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATT  
ACATTTGGAAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACATGAAAGCCATCAAAGA  
ATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCCGAATCTGGCTTGGCGGAATATCTCTTTGACAA  
GCACACCCTGGGAGACAGTGATAATGAAAGCTTAAGCCTCGGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCT  
GGTCACCAAGGCAGTGCAATGCATGTTGGGG

85/5332  
**FIGURE 76**

CAGGGAGTCCCACCAGCCTAGTCGCCAGACCTTCTGTGGGATCATCGGACCCACCTGGAACCCACCTGACCCAA  
GCCACCTGCTGCAGCCCACTGCCTGGCCATGACCATCACTTACACAAGCCAAGTGGCTAATGCCCCGCTTAGGCT  
CCTTCTCCCGCTGCTGCTGTGCTGGCGGGCAGCATCTACAAGCTGCTATATGGCGAGTTCTTAATCTTCCTGC  
TCTGCTACTACATCATCCGCTTTATTTATAGGCTGGCCCTCACGGAAGAACAACAGCTGATGTTTGAGAACTGA  
CTCTGTATTGCGACAGCTACATCCAGCTCATCCCCATTTCTTCGTGCTGGGCTTCTACGTGACGCTGGTCGTGA  
CCCGCTGGTGGAACCACTACGAGAACCTGCCGTGGCCCGACCGCCTCATGAGCCTGGTGTGGGCTTTCGTGGAAG  
GCAAGGACGAGCAAGGCCGGCTGCTGCGGCGCACGCTCATCCGCTACGCCAACCTGGGCAACGTGCTCATCCTGC  
GCAGCGTCAGCACCGCAGTCTACAAGCGCTTCCCCAGCGCCAGCACCTGGTGCAAGCAGGCTTTATGACTCCGG  
CAGAACAACAAGCAGTTGGAGAACTGAGCCTACCACACAACATGTTCTGGGTGCCCTGGGTGTGGTTTGCCAACC  
TGTCATGAAGGCGTGGCTTGGAGGTGCAATCCGGGACCTATCCTGCTCCAGAGCCTGCTGAACGAGATGAACA  
CCTTGCGTACTCAGTGTGGACACCTGTATGCCTACGACTGGATTAGTATCCCACTGGTGTATACACAGGTGGTGA  
CTGTGGCGGTGTACAGCTTCTTCCTGACTTGTCTAGTTGGGCGGCAGTTTCTGAACCCAGCCAAGGCCTACCCTG  
GCCATGAGCTGGACCTCGTTGTGCCGCTCTTACGTTTCTGAGTTCTTCTTCTATGTTGGCTGGCTGAAGGTGG  
GCCTCTCCAGGGCCCTGCTGGGCTGGAGGCATGGCCAGAGGGGTGATGGCCAGCAGCTGCCTGAGACGAGGATGC  
AGTGTGAGGAAAGGAAGGTCTCACGGGTAGAAAGCAGCCAGGCGTGGTGGCGCACACCTGTAATCCCAGCTACTC  
GGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGTGGTGGCAGAGCAGCTCATCAACCCCTT  
TGGAGAGGATGATGATGATTTTGAGACCAACTGGATTGTGACAGGAATTTGCAGGTGTCCCTGTTGGCTGTGGA  
TGAGATGCACCAGGACCTGCCTCGGATGGAGCCGGACATGTACTGGAATAAGCCCGAGCCACAGCCCCCTACAC  
AGCTGCTTCCGCCCAGTTCCGTCGAGCCTCCTTTATGGGCTCCACCTTCAACATCAGCCTGAACAAAGAGGAGAT  
GGAGTTCCAGCCCAATCAGGAGGACGAGGAGGATGCTCACGCTGGCATCATTGGCCGCTTCTAGGCCTGCAGTC  
CCATGATCACCATCCTCCCAGGGCAAACCTCAAGGACCAAACCTACTGTGGCCCAAGAGGGAATCCCTTCTCCACGA  
GGGCTGCCCAAAAACCAAGGCAGCCAAACAGAACGTTAGGGGCCAGGAAGACAACAAGGCCTGGAAGCTTAA  
GGCTGTGGACGCCTTCAAGTCTGCCCCACTGTATCAGAGGCCAGGCTACTACAGTGCCCCACAGACGCCCTCAG  
CCCCACTCCCATGTTCTTCCCCCTAGAACCATCAGCGCCGTCAAAGCTTACAGTGTCACAGGCATAGACACCAA  
AGACAAAAGCTTAAAGACTGTGAGTTCTGGGGCCAAGAAAAGTTTGAATTGCTCTCAGAGAGCGATGGGGCCTT  
GATGGAGCACCCAGAAGTATCTCAAGTGAGGAGGAAAACCTGTGGAGTTTAACCTGACGGATATGCCAGAGATCCC  
CGAAAATCACCTCAAAGAACCTTTGGAACAATCACCACCAACATACACACTACACTCAAAGATCACATGGATCC  
TTATTGGGCCTTGGAACACAGGGATGAAGCACATTCCTAACCTGCTTCTAATGGGGATGCTTCGCCAGCCAGGT  
CCTCACCTGTGTGTACACCAGCAGGACACTGATCCAGTACAGCCATACAGCTGTCCACACTGAAGAACATGTCC  
TACAACAGCCTGAATCAAATGGTTAGCTTAATAGATAAAAATCCAGACTACTTCAGCCTTTAATGCCTTTTATT  
CATAAAAACCTGTGAAAGCTAGACTGAACCATTGGAACATTTAACTCAGACTCTGGATTGAGAGTCGGGAACCCCT  
TAGTTCTATCTGAATCCAAGACAGCCACACCTTAGTATACTGCCCAAATAATGAGTTTAAATAAATACAAATACT  
CGTT

86/5332  
**FIGURE 77**

CTGGTGGGGGAAGAAGGCTCCTGCTACCTCCCTTCCCGGCACCCTCCAGAGGGACCCTCAGTCTGGCCTTGCAA  
GCATGGACTCTTCTGAGGAGCACGCTGGGTGCCCCGCCCCGAGGGACATGTCCCGTGTTCCTGGCCATGAGTGCAG  
GGACTGTCCGCTACGCCCCATCAGGCCTGTGCCCTGTACTTGAGGGGAACCTTGAGAGAAGAGCCCTGGGGCACAG  
ACAGCCCACCCAGCCAGACCAGGGCCTCCCGCCGCCCTTGAGCTGTCCCGGTCCCCTGGAAGAGCACGGACC  
CCTGCCAAGGCCACAGGGAGTCCCCAGGAGCCCTGGTGGAGACCTCTGCAGGGGAGGAGGCCCGAGGCCAGGAGG  
GCCCCGCAGCCGCCAGCTGGACGTGTTGCGCCTGCGCAGCTCTTCCATGGAGATCCGAGAGAAGGGCTCCGAGT  
TCCTGAAGGAGGAGCTGCACAGAGCGCAGAAGGAGCTGAAGCTAAAGGACGAGGAATGTGAGCGGCTGTCCAAGG  
TGCGGGAGCAGCTAGAACAGGAGCTGGAAGAGCTGACGGCCAGCCTGTTTGAGGAAGCTCACAAGATGGTTTCAG  
AAGCCAACATGAAGCAGGCGGCATCAGAAAAGCAGCTGAAGGAGGCTCGGGGCAAGATCGACATGCTGCAGGCAG  
AGGTGACAGCCTTGAAGACGCTGGTCATCACGTCCACACCAGCCTCTCCCAACCGCGAGCTTCACCCCCAGCTGC  
TGAGCCCCACCAAGGCCGGGCCCCGAAAGGGCCACTCTCGCCACAAGAGCACCAGCAGCACCCCTCTGCCCCGCCG  
TGTGTCCCGCTGCGGGACACACCCCTCACCCAGACAGAGAGGGCAAGGAGGTGGACACAATCCTGTTTGCAGAGT  
TCCAGGCCTGGAGGGAATCCCCCACCTGGACAAGACCTGCCCCCTTCTTGAAAGGGTGTACCGGGAGGACGTGG  
GCCCCTGCTGGACTTCACGATGCAGGAGCTCTCGGTGCTGGTACGGGCGCCCGTGGAGGACAACACGCTCACCA  
TTGAGCCGGTGGCTTCGCGAGACGCTGCCCACAGTGAAGGTGGCCGAGGTTGACTGTAGCAGCACCAACACATGTG  
CCCTGAGCGGGCTGACCCGCACCTGCCGCCACCGAATCCGGCTCGGGGACTCCAAAAGCCATTACTACATCTCGC  
CATCTTCCCGGGCCAGGATCACCGCAGTGTGCAACTTCTTACCTACATCCGCTACATCCAGCAAGGCCTGGTGC  
GGCAGGACGCAGAGCCCATGTTCTGGGAGATCATGAGGTTGCGGAAGGAGATGTCACTGGCCAAGCTCGGCTTCT  
TCCCCCAGGAGGCTTAGGGCGCGGCCAGGCCTGAAGGGGAGCTCTGAGACAGAGCAAACACCCACCCAGAACA  
AGCCGACACACAGGGAGACGGGGGCTGGAGCCAGCCCTGAGCCAGAGGCAGAATGGATGGACAGACAGGCCATG  
GAGGCAGCACTGAGCCAGCACACACGTCCATCCTGGGACAGACGGGCCTGGACTTCACGGCAAGACCCCCCTCT  
CTTCCCCACTGGGTTCCTGCCACCACCAGGAGGATTTCAAGAAAGCACCAAAGACCAGGGAGCTCGGATCCATACT  
CGGGGGGCTCAGCCCTTGGGAGGGGACACCTGAGGCAGCCAGCGCCCCCTCCCCAGTCCCCAGAAGTGCCTGCA  
GGTGCTTGTGCTGGCTTGTCTTCAAAAAGGGACTGTTCTGGGTGGCTGGATCTCCAGGGTACCCTCCACCCCA  
GCTGCCAAGCCCTGGGCCAGCAGCACCCCTTGTGGCCATCCTGTGCTTGTTCGGGTGGCTTCCCTATTGGAC  
TACTAGGAGGGGCTGGCAGGGCCTCCATAGCACAGAATTGCCCAAAGCCTTGTTAAGATGAGTCAAGACCCCTC  
CCCCGCTTCTCCTCCCTTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT  
CCCGTCTCAGCCCTGTGCTCCTGGAGGGCCTGCTCCCAAACCGCTGGAAGGACTGGGGCACTTCTGCCACAGT  
AGAACACAGACAGGGCTTCAGATCGCCACGCTGTTTTAGCTGTGGGTGGCCATGCAGACACGCGCCCTGGCA  
TGTGGGGCCTGGGTGGGCAGGCAGGACCTGGGCCCTCCACCCATCAGAGCCCACTCAGGACCAGCGTTCCGAGC  
TCCCACCTGGACGCATCCCTCACACGTCCGGATTCTTCTTTGGATGGAATGTAACGCGATCTCTATTTAATA  
AAGGCAGGCTTTGTTGGT

87/5332  
**FIGURE 78**

GAGGCGCACGCTCGCTCGTACGGCGGGCCGCGCGGCAGGGCGGGGCCGGAGCAGCGGGCGGGCGGGAGGCGGGC  
CCCCGGAGCGCTCTTCGCTTCCCTCGGGGTCTTGCTCGGACCTCGGCCACCGCCTGGGATCCCCAGGACTCGTGC  
GTGCAGCATGGGCGGCGTCGGGGAGCCGGGACCGCGGAGGGACCGCGCAGCCGGGGGCGCCGCTGCCCCACCTT  
CTGCTGGGAGCAGATCCGCGCGCACGACCAGCCCGGCGACAAGTGGCTGGTCATCGAGCGCCGCGTCTACGACAT  
CAGCCGCTGGGCACAGCGGCACCCAGGGGGCAGCCGCCTCATCGGCCACCACGGCGCTGAGGACGCCACGGATGC  
CTTCCGTGCCTTCCATCAAGATCTCAATTTTGTGCGCAAGTTCCTACAGCCCCTGTTGATTGGAGAGCTGGCTCC  
GGAAGAACCCAGCCAGGATGGACCCCTGAATGCGCAGCTGGTCGAGGACTTCCGAGCCCTGCACCAGGCAGCCGA  
GGACATGAAGCTGTTTGATGCCAGTCCCACCTTCTTTGCTTTCCTACTGGGCCACATCCTGGCCATGGAGGTGCT  
GGCCTGGCTCCTTATCTACCTCCTGGGTCTGGCTGGGTGCCCAGTGCCCTGGCCGCCTTCATCCTGGCCATCTC  
TCAGGCTCAGTCTGGTGTCTGCAGCATGACCTGGGCCATGCCCTCCATCTTCAAGAAGTCTGGTGGAACACGT  
GGCCAGAAAGTTCGTGATGGGGCAGCTAAAGGGCTTCTCCGCCCACTGGTGGAAGTTCGCCCACTTCCAGCACCA  
CGCCAAGCCCAACATCTTCCACAAAGACCCAGACGTGACGGTGGCGCCCGTCTTCTCCTGGGGGAGTCATCCGT  
CGAGTATGGCAAGAAGAAACGCAGATACCTACCCTACAACCAGCAGCACCTGTACTTCTTCTGATCGGCCCCGCC  
GCTGCTCACCTTGGTGAACTTTGAAGTGGAAAATCTGGCGTACATGCTGGTGTGCATGCAGTGGGCGGATTGCT  
CTGGGCCGCCAGCTTCTATGCCCGCTTCTTCTTATCCTACCTCCCCTTCTACGGCGTCCCTGGGGTGCTGCTCTT  
CTTTGTTGCTGTCAGGGTCTGGAAAGCCACTGGTTTCGTGTGGATCACACAGATGAACCACATCCCCAAGGAGAT  
CGGCCACGAGAAGCACCGGGACTGGGTGAGCTCTCAGCTGGCAGCCACCTGCAACGTGGAGCCCTCACTTTTCAC  
CAACTGGTTCAGCGGGCACCTCAACTTCCAGATCGAGCACACCTCTTCCCCAGGATGCCGAGACACAACCTACAG  
CCGGGTGGCCCCGCTGGTCAAGTCGCTGTGTGCCAAGCACGGCCTCAGCTACGAAGTGAAGCCCTTCTCACC GC  
GCTGGTGGACATCGTCAGGTCCCTGAAGAAGTCTGGTGACATCTGGCTGGACGCCTACCTCCATCAGTGAAGGCA  
ACACCCAGGCGGGCAGAGAAGGGCTCAGGGCACCAAGCAACCAAGCCAGCCCCGGCGGGATCGATAACCCACCC  
CTCCACTGGCCAGCCTGGGGGTGCCCTGCCTGCCCTCCTGGTACTGTTGTCTTCCCCTCGGCCCCCTCACATGTG  
TATTCAGCAGCCCTATGGCCTTGGCTCTGGGCCTGATGGGACAGGGGTAGAGGGAAGGTGAGCATAGCACATTTT  
CCTAGAGCGAGAATTGGGGGAAAGCTGTTATTTTATATTAAATACATTCAGATGT

88/5332  
**FIGURE 79**

AGGGGGCGCGGTGGGAGGAGTAGGAGAAGACAAAAGCCGAAAGCGAAGAGGGCCCGGGCTGCACACACCGGCTGG  
GAGGCAGCCGTCTGTGCAGCGAGCAGCCGGCGCGGGGAGGCCGAGTGCACGGGGCGTCACAGTCGGCAGGCAGC  
ATGGGGGAAGGGAGGGAACCAGGGCGAGGGGGCCGCCGAGCGCGAGGTGTGGTGCCACCTTCAGCTGGGAGGAG  
ATTCAGAAGCATAACCTGCGCACCGACAGGTGGCTGGTCATTGACCGCAAGGTTTACAACATCACCAAATGGTCC  
ATCCAGCACCCGGGGGGCCAGCGGGTCATCGGGCACTACGCTGGAGAAGATGCAACGGATGCCTTCCGCGCCTTC  
CACCTTGACCTGGAATTCTGTGGCAAGTTCTTGAAACCCCTGCTGATTGGTGAACTGGCCCCGGAGGAGCCAGC  
CAGGACCACGGCAAGAACTCAAAGATCACTGAGGACTTCCGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTG  
TTCAAGACCAACCACGTGTTCTTCTCCTCCTCCTGGCCACATCATCGCCCTGGAGAGCATTGCATGGTTCACT  
GTCTTTTACTTTGGCAATGGCTGGATTCTACCTCATCACGGCCTTTGTCTTGTCTACCTCTCAGGCCCAAGCT  
GGATGGCTGCAACATGATTATGGCCACCTGTCTGTCTACAGAAAACCCAAGTGGAACCACCTTGTCCACAAATTC  
GTCATTGGCCACTTAAAGGGTGCCTCTGCCAACTGGTGGAATCATCGCCACTTCCAGCACCACGCCAAGCCTAAC  
ATCTTCCACAAGGATCCCGATGTGAACATGCTGCACGTGTTTGTCTGGGCGAATGGCAGCCCATCGAGTACGGC  
AAGAAGAAGCTGAAATACCTGCCCTACAATCACCAGCACGAATACTTCTTCTGATTGGGCCCGCGCTGCTCATC  
CCCATGTATTTCCAGTACCAGATCATCATGACCATGATCGTCCATAAGAACTGGGTGGACCTGGCCTGGGCCGTC  
AGCTACTACATCCGGTTCTTCATCACCTACATCCCTTTCTACGGCATCCTGGGAGCCCTCCTTTTCTCAACTTC  
ATCAGGTTTCTGGAGAGCCACTGGTTTGTGTGGGTACACAGATGAATCACATCGTCATGGAGATTGACCAGGAG  
GCCTACCGTGACTGGTTCAGTAGCCAGCTGACAGCCACCTGCAACGTGGAGCAGTCCTTCTTCAACGACTGGTTC  
AGTGGACACCTTAACTTCCAGATTGAGCACCACCTCTTCCCCACCATGCCCCGGCACAACCTACACAAGATCGCC  
CCGTGGTGAAGTCTCTATGTGCCAAGCATGGCATTGAATACCAGGAGAAGCCGCTACTGAGGGCCCTGCTGGAC  
ATCATCAGGTCCCTGAAGAAGTCTGGGAAGCTGTGGCTGGACGCCTACCTTACAAATGAAGCCCACAGCCCCCGG  
GACACCGTGGGGAAGGGGTGCAGGTGGGGTGATGGCCAGAGGAATGATGGGCTTTTGTCTGAGGGGTGTCCGAG  
AGGCTGGTGTATGCACTGCTCACGGACCCCATGTTGGATCTTTCTCCCTTTCTCCTCTCCTTTTTTCTCTTACAT  
CTCCCCCATAGCACCTTGCCTCATGGGACCTGCCCTCCCTCAGCCGTCAGCCATCAGCCATGGCCCTCCCAGTG  
CCTCCTAGCCCCCTTCTTCCAAGGAGCAGAGAGGTGGCCACCGGGGGTGGCTCTGTCTACCTCCACTCTCTGCC  
CTAAAGATGGGAGGAGACCAGCGGTCCATGGGTCTGGCCTGTGAGTCTCCCTTGCAGCCTGGTCACTAGGCATC  
ACCCCCGCTTTGGTTCTTTCAGATGCTCTTGGGGTTTATAGGGGAGGTCTAGTCGGGCAGGGCCCCCTGACCCTC  
CCGGCTGGCTTCACTCTCCCTGACGGCTGCCATTGGTCCACCCTTTTATAGAGAGGCCTGCTTTGTTACAAAGC  
TCGGGTCTCCCTCCTGCAGCTCGGTTAAGTACCCGAGGCCTCTCTTAAGATGTCCAGGGCCCCAGGCCCGCGGGC  
ACAGCCAGCCCCAAACCTTGGGCCCTGGAAGAGTCTCCACCCCATCACTAGAGTGCTCTGACCTGGGCTTTTAC  
GGCCCCCATTCACCGCCTCCCAACTTGAGCCTGTGACCTTGGGACCAAAGGGGGAGTCCCTCGTCTCTTGTGA  
CTCAGCAGAGGCAGTGGCCACGTTTCAAGGAGGGGCCGGCTGGCCTGGAGGCTCAGCCCACCTCCAGCTTTTCT  
CAGGGTGTCTGAGGTCCAAGATTCTGGAGCAATCTGACCCTTCTCAAAGGCTCTGTTATCAGCTGGGCAGTGC  
CAGCCAATCCCTGGCCATTGGCCCCAGGGGACGTGGGCCCTGCAGGCTGCAGGAGGGCACTGGAGCTGGGAGGT  
CTCGTCCCAGCCCTCCCCATCTCGGGGCTGCTGTGTGGACGGCGCTGCCCTCAGGCACTCTCCTGTCTGAACCTGC  
CCTTACTGTGTTTAACTGTTGCTCCAGGATGCATTCTGATAGGAGGGGGCGGCAGGGCTGGGCCTTGTGACAAT  
CTGCCTTTCACCACATGGCCTTGCTCGGTGGCCCTGACTGTGAGGAGGGGCCAGGGAGGCAGAGCGGGAGGGAG  
TCTCAGGAGGAGGCTGCCCTGAGGGGCTGGGGAGGGGGTACCTCATGAGGACCAGGGTGGAGCTGAGAAGAGGAG  
GAGGTGGGGGCTGGAGGTGCTGGTAGCTGAGGGGACGGGCAAGTGAGAGGGGAGGGAGGGAAGTCTGGGAGGAT  
CCTGAGCTGCTGTTGCAGTCTAACCCTAATCAGTTCTTAGATTGAGGGGAAGGGCAGGCACCAACAACCTCAGA  
ATGGGGGCTTTCGGGGAGGGCGCCTAGTCCCCCAGCTCTAAGCAGCCAGGAGGGACCTGCATCTAAGCATCTGG  
GTTGCCATGGCAATGGCATGCCCCCAGCTACTGTATGCCCCGACCCCCGCAGAGGCAGAATGAACCCATAGGG  
AGCTGATCGTAATGTTTATCATGTTACTTCCCCACCCCTACATTTTTTGAATAAAATAAGGAATTTTATTCTC

89/5332  
**FIGURE 80A**

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGGGCGTCCGACGGC  
CAGCTATGCCCCCGACCCGGTGGCCGCGGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG  
AGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA  
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCAGGATGCCACGGATCCCTTTGTGGCCT  
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA  
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC  
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA  
CCCTTTGGGTCTTTGGGACGTCTTTTTTGGCCTTCTCTCTGTGCGGTGCTGCTCAGTGCAGTTTCAAGGCCAGG  
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGCGGTCTTCAGCACCTCAAAGTGAACCATCTGCTACATCATT  
TTGTGATTGGCCACCTGAAGGGGGCCCCCGCCAGTTGGTGGAAACCATGCACTTCCAGCACCATGCCAAGCCCA  
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTGCCTTGGGGAAGATCCTCTCTGTGGAGC  
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTAATTGGGCCCCCAGCCT  
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA  
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTGGGCCTTTTCT  
TCATAGTCAGGTTCTTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC  
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT  
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTTCCCACGATGCCTCGACACAATTACCACAAAG  
TGGCTCCCCCTGGTGCAGTCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTGAGCCTTCC  
CCGACATCATCCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCAATTAACAACAGCCAC  
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT  
AGTTTAAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC  
CACAGTTCTAAGACCCAAAGTGGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT  
AAATTATTTCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG  
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACTAAATTCACCTCATGCCGGGCGTGGTGGCACGC  
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC  
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC  
ATATAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTGCAAACCTCAGAGGGA  
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAACATTAATGCTTAGAATTCTGAGATCCAGCA  
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA  
TGCCATTCTCCAGTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA  
TCCTGGAACCACTGATTTTGGTTTATTCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA  
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAGCTCTTTTATCTTTTAAATTCACCTCTTCTTTTACCTCTTTAA  
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG  
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT  
AATAAAATAGCAATTAGCAGAAGTGACCAAAATTGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCCGT  
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTGGAGCAGGA  
GCAGAAAGATTAAATATGATCACTTCATACTTCTAAATCAGAAATAGGAAGATTAAAACCACAGAACAGTTTGTG  
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAGTATCTAACTCTTCTGGAAACCAATA  
GGCTTTAGAAGAGATTATCCTATATTCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA  
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA  
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT  
CAGCAGCATCTACTTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC  
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCTTAAGGCATGTTGGGATAGG  
GTCAGATGCACCACCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA  
TGGAAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG  
CTGCAGAAGATTTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAAGTGGTTTAAACAGCCTGGGT  
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG  
GATCACTTGGGCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

90/5332  
**FIGURE 80B**

ACAAGACCCTGTCTCAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCTC  
ACTCCAAAATAGGTGCTGATCCTTCCTATTCCTATTCTTTGCCACCTTTTGGGTGTGGTGTCACCAGCCTGTTTA  
GCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTCC  
TCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTGGTCTCTTACATGGCCACAAAGGGACACAC  
AGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCTT  
AGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCCAAC  
TCTATGTTTATCTTTGTTACTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCAG  
TATTCTTTTTGTGTGTGCCAATTTTGTATCACATCCCTATGAAGTTGAAAAATAAAGTTAATTTTGACC



91/5332  
**FIGURE 81**

AGTCCTGCGATTTTCGGGTGTAGAGGGAGCAGGGGCCTGCGGGGACCTGGTGTGGGTGGAGTGGGGACAAGCGGTG  
GAGAAGGGTACGCCAGGGTCGCTGAGAGACTCTGTTCTCCCTGGAGGGACTGGTTGCCATGAGAGCAGCCGCTCTG  
AGGGGACGCAGCCTGCACTACGCGCCCCAAGAGGCTGTGCGTGGCGAGCAGGTCACGTGACGGGAGCGCGGGCTT  
TGGAAGGCGGCTGAACGTCAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCCTGCCCCGGG  
GCAACCCCGAACCAAGCTTTAGCCGCCGAGGCCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTTGCCATG

GGAATTCAAGGCCTGGCCAACTAATTGCTGATGTGGCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTAC  
TTTGGCCGTAAGGTGGCCATTGATGCCTCTATGAGCATTTATCAGTTCCTGATTGCTGTTTCGCCAGGGTGGGGAT  
GTGCTGCAGAATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTTCGCATGATGGAG  
AACGGCATCAAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGT  
GAGCGGCGGGCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGGAAAAATTC  
ACTAAGCGGCTGGTGAAGGTCACTAAGCAGCACAAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCT  
TATCTTGATGCACCCASTGAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCT  
ACCGAGGACATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAAG  
CTGCCAATCCAGGAATTCACCTGAGCCGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTG  
TGCATCCTGCTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCCAAGCGGGCTGTGGACCTCATCCAG  
AAGCACAAAGAGCATCGAGGAGATCGTGCGGCGACTTGACCCCAACAAGTACCCTGTGCCAGAAAATTGGCTCCAC  
AAGGAGGCTCACCAGCTCTTCTTGGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCA  
AATGAAGAAGAGCTGATCAAGTTCATGTGTGGTGAAAAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAG  
AGGCTGAGTAAGAGCCGCCAAGGCAGCACCCAGGGCCGCCTGGATGATTCTTCAAGGTGACCGGCTCACTCTCT  
TCAGCTAAGCGCAAGGAGCCAGAACCCAAAGGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTT  
AAAAGGGGAAAAATAAATGTGTTTCCCCATTATACCTCCTTCACCCCAAGAATATTGCGCTCTTGTACCCTTAAGA  
GCTACAGCTAGAGAAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCCTTTTCAGTAGTG  
CTAGTCCCTTTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTACTTTTCTTTTTTTAGCTCAGGAAAATA  
TGTCAGGCTCAAACCACTTCTCAGGCAGTTTAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAA  
CAAGTTTTTGAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAAGATGTACAGAAATGATTTCTGGCTGGCCAA  
CTGGTGGCCAGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGTCTTGTTTCAGCCTTGACCCACCTTGAGA  
GAGAGCCACCAGGAAGGCGCATCTTAGCAGATGGGAGGAAGTCTGAGAGAAGATGGGCAGAAAGCTGGAGCCCC  
TGGAGTTGGCTGTGTCTGTGTTTGTGACTGATTACTGGCTGTGTCTTGGGTGGGCAGAACTCGAAGTTGCTATG  
TAATTTGTGTCTAGTTATTCAGAGGAGTAAGATGGTGATGTTACCTGGCAATCAGCTGAGTTGAGACTTTGGAA  
TAAGACACTGGTTTTTCATGCGCTGTTTTGTTTTTAAAGTTATGAAGAAAAAGTCAATAAAATTCTAAAGT

92/5332  
**FIGURE 82**

CCTGCCGACGTGTTCTTCCGGTGGCGGAGCGGCGGATTAGCCTTCGCGGGGCAAAAATGGAGCTCGAGGCCATGAG  
CAGATATACCAGCCCAGTGAACCCAGCTGTCTTCCCCCATCTGACCGTGCTTTTGGCCATTGGCATGTTCTT  
CACCGCCTGGTTCTTCGTTTACGAGGTCACCTCTACCAAGTACACTCGTGATATCTATAAAGAGCTCCTCATCTC  
CTTAGTGGCCTCACTCTTCATGGGCTTTGGAGTCCTCTTCCTGCTGCTCTGGGTGGCATCTACGTGTGAGCACC  
CAAGGGTAACAACCAGATGGCTTCACTGAAACCTGCTTTTGTAATTACTTTTTTTTACTGTTGCTGGAAGTGTC  
CCACCTGCTGCTCATAATAAATGCAGATGTATA

93/5332  
**FIGURE 83A**

CACAGGGCCTGCAGAGAGGGGACCCACCGGGCAGGATGCACTGGCTTCCAGCAGGCCACGACATCAACGGTGCCC  
TGGAGCCCTCCAACATAGACACCAGCATCCTGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCTGCTTCC  
CTGACATCTCTGCTCCAGCCAGCTCGGCCTCTACTCCACGGGGCAGCCTGCGATGCCTGGCTCCAGCGGGGTCC  
ACCACCTGAGCCCCCTGGGGGTGGACCCTCCCCGGGGCGCCATGGTCCCCTCCCACCCCGGGCTACGGCACCC  
CGCTGAACTGCAACAACAACAGGCATGGGCGCTGCCCCAAGCCCTTCCCGGGGGGCACCGGGCCCCCATCA  
AGGCTGAGCCCAAGGCTCCCTATGCCCCAGGCACACTGCCGACTCTCCCCAGACTCGGGCTCCGAGGCCTACT  
CCCCCAGCAGGTGAATGAGCCCCACCTCCTGCGCACGATAACCCCTGAGACACTGTGCCACGTGGGAGTGCCCT  
CCCGCCTGGAGCATCCGCCCCACCTCCAGCCCACTTGCCAGGCCCCCGCCACCCCAACACCCCACTCACT  
ACCCTGTCTGCGAGCGGGATCTGTACATGAAGGCCGAGCCCCGATCCCCACTACGTGCCATGGGGCAGGGGC  
TGGTGGCCACTGATCTTCACCACACCCAGCAGTCCCAGATGCTGCACCAGCTCCTGCAGCAGCACGGAGCTGAGC  
TCCCTACACACCCCTCCAAGAAGAGGAAGCACTCTGAATCCCCCGAGCACCCCTCAATGCCCAGATGCTGAATG  
GAATGATCAAAACAGGAGCCTGGGACCGTGACAGCCCTGCCTCTGCACCCCACTCGAGCCCCATCGCCACCCCTGGC  
CTCCCCAGGGTCCGCTCTCCCCGGGCCCTGGTTCTTGCTCTCAGCATTGCCCGTGTCCAGACACCGCCTTGGC  
ACCCGCCAGGTGCCCCCTCCCCAGGCCTCCTGCAGGACAGTGACAGCCTCAGTGGCTCCTACCTGGACCCCCA  
ACCAGTCCATCAAGTGCCAGCCTCATCAGCAGAACAAGTGGGCGACCCCTGTACGATGCTAACTACAAGGAGCTGC  
CCATGCTCACCTACCGCGTGGATGCGGACAAGGGCTTCACTTTTCGGTGGGCGACGACGCCTTTGTGTGCCAGA  
AGAAGAACCCTTCCAGGTGACAGTGTACATCGGCATGCTGGGCGAGCCCCAAGTACGTCAAGACGCCCCGAGGGCC  
TCAAGCCCCCTGACTGCTTCTATCTGAAGCTGCACGGAGTGAAGCTGGAGGCCCTGAACCAGTCCATTAAACATCG  
AGCAGTCCCAGTCAGACCGGAGCAAGCGGCCCTTCAACCCGGTCACGGTCAATCTGCCCCCTGAGCAGGTACGA  
AGGTGACTGTGGGGCGGCTGCACTTCAGCGAGACCACCGCTAACAACATGCGTAAGAAGGGCAAGCCCAACCCGG  
ACCAGAGGTACTTCATGCTGGTGGTGGCCCTCCAGGCTCATGCACAGAACCAGAACTACAGCTGGCCGCCCCAGA  
TCTCAGAGCGCATCATTGTGCGGGCCTCCAACCCAGGCCAGTTCGAGAGCGACAGCGATGTGTTGTGGCAGCGGG  
CACAGGTGCCCCGACACCGTCTTCCACCACGGCCGCGTGGGCATCAACACAGACCGGCCGATGAGGCGCTGGTTG  
TGCACGGGAATGTCAAGGTATGGGCTCGCTTATGCACCCCTCCGACCTGCGCGCCAAGGAACACGTGCAGGAGG  
TGGACACCACCGAGCAATTGAAGAGGATCTCGCGCATGCGGCTGGTGCCTACAGATACAAGCCCGAGTTGCGCG  
CCAGCGCGGGCATCGAGGCCACCGCGCCAGAGACAGGTGTCTGCTCAGGAGGTGAAGGAGATCTTGCTGAGG  
CTGTGAAAGACACCGGAGACATGGTCTTTGCCAATGGGAAAACCATAGAGAACTTCTGGTGGTGAACAAGGAGC  
GCATCTTCATGGAGAACGTAGGGGCCGTGAAGGAGCTGTGCAAGCTGACAGACAACCTGGAGACGCGCATTGATG  
AGCTGGAGCGCTGGAGCCACAAGCTGGCCAAGCTGCGGCGGCTCGACAGCCTCAAGTCCACCGGCAGCTCGGGCG  
CCTTCAGCCATGCAGGGAGCCAGTTCAGTCGGGCGGGCAGCGTCCCCACAAGAAGAGGCCCCCAAGGTGGCCA  
GCAAGTCATCGTCCGTGGTTCCGGACCAGGCCTGCATCAGCCAGCGCTTCTGCAAGGAACCATATTGCCCTGG  
TGGTGGTTCATGGCCTTCAGCGTGGTGTCCATGTCCACACTGTACGTGCTGAGCCTGCGCACAGAGGAGGACCTGG  
TAGACACTGATGGCAGGTCCAGCCAGAGCTTTGGGACCACGCAGCTCCGACAGTCCCCCTTGACCACGGGGCTAC  
CAGGCATACAGCCCTCTTTGCTGCTGGTGACCACCAGCCTCACCAGCTCGGCCCCAGGTTCTGCTGTCCGCACCT  
TGGACATGTGTTCCAGCCACCCCTGCCCTGTCTGCTGTTCTCACCCTACCAACCCTACCCTGGTCCCTA  
GTCTTGCCCCCAGCTTTAACCTGGCCATGTTCTCAGCCCAAGTCCCAGCCCCAGCACCAACCGCTCAGGCCCCA  
GCCAGATGGCCCTTCTGCCAGTCACCAACATCAGAGCCAAGTCTGGGGTCTTTTCACTCAATGGCATTGGCCACT  
CCAAGCATCACAAGAGTCTGGAGCCTCTGGCCAGCCCTGCAGTCCCCCTCCCTGGGGGGCAGGGCAAAGCCAAGA  
ACAGTCCCAGCCTTGGTTTCCATGGCCGGGCCCCGCGAGGGGCCCTCCAGTCCAGCGTGGGCCCTGCTGAGCCCCA  
CCTGGGGCCAGGGCCAGTCAGAGCCAGTGCCCTCCCTGACCTCCATCCAGGTGCTGGAGAATTGATGTCCATCA  
CCTCCCAGTACTGTGCTCCAGGGGATGCTGAGGCGCTGGGAACCTTACCTACCACATCCCTGTCTAGTAGTGGA  
CCCCACTGCACCTCAGCCTGACTCTGCAGATGAACTCCTCCTCCCCGTGTCTGTGGTGTGTGCAGCCTGAGGT  
CAAAGGAGGAACCATGTGAGGAGGGGAGCCTTCCACAGAGTCTCCACACCCACCAGGACACCCAGGGCACCTCTC  
ACCGGTGGCCAATAACCATCCTGTCTTCCGTGAATTACCTACCCTTCCGGGTGGCACTGCTGGGTGAGGCCA  
ACTGCAGTTTCAAGGCTCTCGCCAGCCAGCCACAGACTACCACTTCCACTTCTACCGCTGTGTGACTGAGCTG  
CCCTCCTGAGGCAGCACACACAGGGGACCAGGGGTGCCCAGGCACCCCCAACACTGGATGCAATGGTGTGTACA  
CTGGAGCCCGCTGCAGGCCAGCTCTGCTGTTCACTGGCCCTACCCGAGACTGGTGAACTGGAAGTCTTCACT  
GGAGTTGCTGTTCCAGCTGGTGCCTTCACGGCACAGAGGGAACCTGAGAGCCAGAGACTTCTTGGGCCCTTCT

94/5332  
**FIGURE 83B**

GCCTGCCACCCCCTAGGGGCCAGGACAGGACCAGTTTACCTCTTTCCAGATATGGTGGTTGGAGGGCTGGTTCAG  
GTGCCCTGGAGGGAAGGGGAAGCCTGTGGCCCTGATTTGTTTCAGAGCCCATTCTCCCTTGCCCTCCCCTTTTGAGA  
CTGGAGCCAACCCTTTTGGAGAGAGGACCTGCCACCTTTGAGATCAGCAGGGGGCTCGGATCCAGCCCTAAGAG  
ACTTGGGTGGACCCCCTAGAGTCAATGGAGGGCAGACGGCTCTCCCCCTTAAAGCTGTTCCCTGGGGGATGGCTT  
GGTAGTGGACTTTCTGGGGTTTGCCTGTTACGCCAGACTCGGACTTCTAAGCTTTAAGTGTGGCCAGGAGGTTT  
CTTCTCCCTGGGAGGGCTTGGCTCCCAAGAAGTCCCAGGGCAGCCGAGGCCAGCCCTGCCTGGGTTGGAGAACT  
GACTTTGTGCCTTAAGTCTACTCAGTGCCTGGTGAAGCCACCCTCAGCCCTTCACAGGCCTGAACCAGTAGGGGC  
CAGTGGGCCAGGTAAGCCCTAGAGCCTTGAACCAGGAATATCCAGGAAGAGGAAATTCCTTTGAGCCCCCAGAT  
GGTATTGCAGCTTCACTGCCTGCGTTCCCTGGGAGCGTCTGGAGCTCACAGTGATCAGTGACCACATCATTCTCTC  
TGAGCAGAGGAGCAGGAATCCCTCAAGCAGCAGCCTGGTCTTGGCTGGTGGGCAGATGCAAATAGCTTTTGCTGT  
TATTAATGAAGTAATTACTAAATGCACCTTAAACCAGGGCAGGAAGGAATGGAAGGATGGAGCTAGAAAGCTCAGA  
GTGGGCCAGAGCAGGGGTGTGACACTTGCAAAGACAGGGCTCTGACTCTGATCCCTCCCAGGGAGCCTCCGACAC  
CCATCCCCTCCCAACCACCAAGACCCTGGGTTAGGGAAGAAGTTGTATCTTAAGTGCCACCTTCAAGTTTCTTA  
GTGGTGCCTGGTGCATTCCGAGGCTACATCCAGGCTCATGGAAGGAGTGTAGTATTCAATTTAGCCATGTCTGCCA  
TGGGTCCAGAAATGGGAAAGGGAATTGCTGTCTTGGCCTGTGGTATGCTGCCACCTCTTTGGGAAGCAGGCCTT  
GCCCCGTGCCACCACTCATTCTCAGCTTTGAATGGGAGGCCTTTCTATAGTGGAGGCCTTTCTTGAAGCCTAT  
GAACTGCAGGCCCCCTTTTGCCATTGATCTCAAAGCACTTGTCTCAGGATAGGGAAGAGCAGGGGGATGCAGGA  
ATAGCAGGGATAGCTTGCTCCCAGCCCCCTCCCAATTTGGTTCCGTTGACATAGGAATTTTACGATTCCCAAAC  
CATGCAGGGGCTGAGCCTTCCCTTATGATGACTTTGTTCTCCCTCCCCTGGGGGAATCCTCCCTATGCCTTAAAA  
CTGCCGAGCCCCACTCCATGTAATAGGATTCCCTGGGCTTCCCTCAATGGGGGTTTCATGTTCTTGGACTGCGGGCCC  
TCAGTCCCTTAAGTGGAAAGTGACCGTCCACTGCCCCATGGAGCCCATCTGGACACAGCACAGCCCCAAAACCGTT  
AGCAGCTGGCTCTGTTTCCAAGCCTGGGGAGGGGTTCCCTCAGTGCAGGAGTTGGGGACAGGCTGGGGATCCAAGC  
TGCTTGAGGGGGTCAACCTTGACCAAAAGTTGCCTTAAGCCTGTGGTAAAAGGGCTTCAGGGAAGGTAAGTGGGC  
CACCTGCTGGAAGCTGCCAGCTGCCCCGGCTGGCAATGGTGTGAGTGTCTTGGCCCTGTCCCTGCCCTGGGGTCCA  
GCAGGTCATCCCTCCCTTCTTCTCTCTCTTGGCGTTTGTTCCTGTAGTCACTGGGCTAATCTCCCCCTAGCTT  
CAAGCTGTACATAGGGCCTCCCAGTGCAAATCCTCCTGCCCATACCGTGCACCCTTAGAAGCCTGCGTGTGCATA  
GAGCGCCCCCTACTTCCCAGTTAACTCCCAGTTCTTCTCCCTGAGCTTGGTATTTGTCATGTGCCAACTCTGACT  
CTGAGGTGGGCAGTGAGGGAAGCAGCCCCGGGCTGCTTGCCTTCCCTGTCCCCGAAATGTTTCGTTTCTTCTGAAGT  
AAATATACATATATAAATAAATGTATAAATACTGCTTTGTATCTG

95/5332

## FIGURE 84A

TCAGTATCCGGGGGACCCTGTCCCCCAAGGATGCCCTGACTGACCTGACGGGTGATGCTGAGCGCCTCCCCGTGG  
AGGGGCACCACGGCACCTGGCTGGGCCACAAGGGTATGGTCCTCTCAGCTGAGTACATCAAGAAGAACTGGAGC  
AGGAGATGGTCCTGTCCCAGGCCTTTGGGCGAGACCTGGGCCGCGGAACCAAACACTACGGCCTGATTGTGGTGG  
GCCACTCCCTGGGCGCGGGCACTGCTGCCATCCTCTCCTTCTGCGCCACAGTATCCGACCCTCAAGTGCT  
TTGCCTACTCCCCGCCAGGGGGCCTGCTGAGGTGAGGATGCCATGGAGTATTCCAAGGAGTTTCGTGACTGCTGTG  
GTTCTGGGCAAAGACCTCGTCCCCAGGATTGGCCTCTCTCAGCTGGAAGGCTTCCGCAGACAGCTCCTGGATGTC  
CTGCAGCGAAGCACCAAGCCCAATGGCGGATCATCGTGGGGGCCACCAATGCATCCCCAAGTCGGAGCTGCCT  
GAGGAGGTAGAGGTGACCACCCTGGCCAGCACGCGGCTCTGGACCCACCCACAGCGACCTAACTATAGCCCTCTCA  
GCCAGCACTCCACTCTACCCGCCCCGCGCATCATCCACGTGGTCCACAACCACCCTGCAGAGCAGTGCTGCTGC  
TGTGAGCAGGAGGAGCCACATACTTTGCCATCTGGGGCGACAACAAGGCCTTCAATGAGGTGATCATCTCGCCA  
GCCATGCTGCATGAGCACCTGCCCTATGTGGTTCATGGAGGGCTCAACAAGGTGCTGGAGAACTACAACAAGGGG  
AAGACCGCTCTGCTCTCTGCAGCCAAGGTCATGGTGAGCCCTACCGAGGTGGACCTGACTCCTGAGCTCATCTTC  
CAGCAGCAGCCACTCCCCACGGGGCCGCCATGCCACTGGCCTTGGCCTGGAGCTGCCGACTGCAGACCACCGC  
AACAGCAGCGTCAGGAGCAAGTCCAGTCTGAGATGAGCCTGGAGGGCTTCTCGGAGGGGCGGCTGCTGTGCGCA  
GTGGTTGCGGCGGGCGGCCAGGACCCGGTGGAGCTGCTGCTGCTGTCTACCCAGGAGCGGCTGGCGGCGGAG  
CTGCAGGCCCGGGCGGGCACCCTGGCCACCATGGAGAGCCTCTCGGACACTGAGTCCCTGTACAGCTTCGACTCG  
CGCCGCTCCTCAGGCTTCCGCAGCATCCGGGGCTCCCCAGCCTCCACGCTGTGCTGGAGCGTGATGAAGGCCAC  
CTCTTCTACATTGACCCTGCCATCCCCGAGGAAAACCCATCCCTGAGCTCGCGCACTGAGCTGCTGGCGGCCGAC  
AGCCTGTCCAAGCACTCACAGGACACGCAGCCCCCTGGAGGCGGGCCTGGGCAGTGGCGGCGTCACTCCTGAGCGG  
CCCCCAGTGCTGCGGCCAATGACGAGGAGGAAGAGGTTGGCGGTGGGGGTGGCGGGCGGGCTCCCGCGGGGAG  
CTGGCGCTGCACAATGGGCGCCTGGGGGACTCGCCAGTCCTCAGGTGCTGGAATTGCGCGAGTTCATCGACAGC  
CTCTTCAACCTGGACAGCAAGAGCAGCTCCTTCCAAGACCTCTACTGCATGGTGGTGCCCGAGAGCCCCACCAGT  
GACTACGCTGAGGGGCCCAAGTCCCCAGCCAGCAAGAGATCCTGCTCCGTGCCAGTTCGAGCCCAACCTGGTG  
CCCAAGCCCCACGGCTCTTTGCCGGCTCAGCCGACCCCTCCTCGGGCATCTCACTCTCGCCCTCCTTCCCGCTC  
AGCTCCTCGGGTGAGCTCATGGACCTGACGCCCACGGGCCTCAGTAGCCAGGAATGCCTGGCGGCTGACAAGATC  
CGGACTTCTACCCCCACTGGCCACGGAGCCAGCCCCGCAAGCAAGATGAGCTGGTCATCTCAGCACGCTAGCAC  
CCCAGTTGCGTGCCAGCCGGGGCCAGGCAGGAGCAGGTGGCCCTGTGGGCACCTGGTGCTGCCCTGCCGGG  
CAGCTTTAAGGACAGACCCCCAGGGGCAGTTTAGCCTCAGGCACAGGCATCGCTGCTGAGCTGGGGGTCCGCATC  
CCTACCTCAGCTTAGGACCCCCAGAGCCAAGGTGGCTGGGATCTGGCCCCACAGATGGGGAAAGATGGGGGAAGGG  
TGTGGAGTGGGGAGGAGCCTGGGCAGCCTGCTGGGTGGGCCACACTCAGCCTGACTGCCCTCCATGGGGGCATT  
TGGCACCCCTGCTCCAGGACAGGCCATGGGCAAGCTGCCTCCCATCACTGCCTGCTGGCTGCTCTCCAGGGGC  
CAGGTGGAGAGCAGTCCCCCCCCGACACATGTATTCTCATCTGTGGTCCAGGCCGGCATCGTCTGGCCACCCCC  
AGATCTGGTGCTGCTGGCCGGCCCCCTGGGGTGGCCCTGCCGAGGTGGCCTGCAGTGCTGTACATGTTTACAGA  
AGCTGCTGGGCTTGGCTCAGGATGTGTTCTGGGCTTGCAAGCCCCCGCCCAATCATGTGTTTACAGTAGCCGTCT  
CTGAGCAGGGCCCCAAGGCAGCCAGGGGCCTGGAGGGGCCAGAGGAGGTGGGGTCAGGGCCGCCCCCTTCTCTGCC  
TTGTGCCTCTCATGCTGCCCTCCTCTGCCATGGGTCTGGGCACCCAGGCCTGCCCTGCTGCTGGCTACTTCTCT  
GGCTTACCTTCTACCCCCAAGGATCCTCACCACCCAAAGGGTGGTGGGCACTGCTGTGACCACCCAGCTGCAGA  
GTCAGTGCCCTGGGTGGAAGGAAGGCACTGAGAGCCCCCTTCTCTGAGGGCCCCACCTCACCCTTGGTGTAC  
CCCCACCACGCTTAGGCAGCTCTGGGCCCTGGGATCTGGAACCAACACACCCTGTTCCCTCAGCTTTCCCTCC  
TCGCTGGCCTGGGCACCCCTCCTGGGAGCAGGCCTTCTTCCCTCCACCCCCAATGTCCTGTTGGTAGGAGGTGGG  
GCCAAGAGTGGGGTATGGTGGGCCCTTGGCTGGAGACCTCTGTCCACTGCCAGGGAGGGGCTGGGGCTGGGAGC  
AGTCCCGGTTTAGCCTGAGGTCCCCATAGGGCTTCTTCCCTGCTGGGTGGGGAAGCAGTTAGGGAGATAGCGA  
CCCGGAGTTTCCCCAGAAGCGGGGTGGGAGGGTGTGCATGCTAGTGTGGCGCGTATGCATGTGCATGAGTGTGC  
ACCGTTCCCTAAGGAAGGGGCCCTCTGGGGCTGCCACCCTACCTGCCCTGCCCTGCTGCCCTTCCAGCCTGC  
CAAGAAAACGGTAGGGGAGCATGATGGGGCCTTTGAGGCAGGGTCGCAGGGACAAGCTCAGCTTTAGGCACCATC  
TGTTCCCATCGCGCCTGCTGCTGTGACCCGTTTGGAAAACCTGGTGTGTACCGAGGCGCTGACTGCACGGCTGAC  
CGCCTGCTCGTGCTTCACTTCTGCAGCGCATGGTCCCTCCATTCTGGCTCCACCTGCAGCCTCCCTGGGTGGC  
CTAGGCTCCCCGACCAAGAGACCTCCCTCTCATGATCACTGGTACCTGGGGGCCTGAATTCTGGCCCCCGGCTC

96/5332  
**FIGURE 84B**

CCCACACAGCTGGGACTGGCCTGGATGGCTGTCCTGGGAGCCCCTGCCCACCCTGACAGAGGGAGCTGGGCCTCC  
CCTCATCCTCTGTAACTCCCGCCTTCACCAGACTCAAGGACACCCTGGCCCTGCTGAGGCATACAGAGCTTCAGC  
CCAGCACAGAAGCAAGACAAAATCAGTGGCTCTTAGAGTTTAGAAAACAAGACAGACTCTCAGATGAAAGATCTG  
ACAAGCACCGTGGCCAGTCACAGGGAGAGACTTGATGTCTGGCCTTTTAATTCCTCCTCTGCCAGGGTGGGTCTCT  
GGGACCTCTAATGTGGGCATGTCGTCCACCCAGGACGAGCCATCAGGGACAGACCCCCACCCCAAGGCTGCA  
GCCACACCATGTTTCAGGCTTGGGGCTGGGGCAGGCTTGGGCTCAATCCTGGGCACCCAGGGGCAGCCCACCCCT  
AACCTGGCTCCTACCCACCTCGCCCTTGAAGGATGGGCCTGCTGCACGTCTCCCTCCTCCACCCCATACCACACT  
GGGGGGTCTGAGCCACCCCCCTCAGCCCCGTTTCGGCTCAGACCGACCCCACTCCATCCCCAGACCTGCAGCACA  
AGTGCGCGGGCCTGTCTCCAGGGGCCTGGGCGACTCCATATGCAATCAGTAGCGAGCAGCCGGGCCCCACAGA  
CCCTCATGCACTCTCTTACGTGCCATTCTCCCCAGACTTTTTTGTACTTAATGTATGAAAGATCCAACTAATA  
TTGCTGTAAAAAGGAGAGACAAATTAATATAGCTTATTCTATAAATATATCTGTATATAAAGGTTTCTGTATATT  
GTATAGAGCTGTGTATAAACTGGATGTAGAAGCAC

97/5332  
**FIGURE 85**

ATTGCTGGGGCTGCAGCGCTGCCTCCGAGACCGCGAGGTGGGTGGATCGGGTCTTCCTGGAAGGGTGCGATAAGG  
CCGGGCGAGGTGCCTGGGATGCTTCTCCCCCTTCCGCGAGGAAGAGATCTAATTGGGTAGGGCGGGTGTAGACTAG  
CCTGCCGAGCCGCCCGCTGGCACCTGCAGCCTCCTGGGCGCCCGCCGGGCCCCGGCGAGAAAGTTGTTAAAGGGA  
GCGAGGTGGTTGTTTCTGGGGTGCTTGGCGCGCCCTCTCACGCCCTGCCCAACAGAAGCCGCAGTCCCGTGGGGT  
CTGGAGACGCAGTTTCTGTTAATGACAATAAATCCCTGCTCCCCCTGCCTCAGACATCTACGCAGCGAAATCGA  
GCCTGGCCTTGAGGGTCCACACCGCGAGGGAAGATCGTGCGCCCATTCAGAGCCTAAGCCTGGAGACCTGATT  
GAGATTTTTCGCCCTTTCTACAGACACTGGGCCATCTATGTTGGCGATGGATATGTGGTTCATCTGGCCCCCTCCA  
AGTGAGGTTCGAGGAGCTGGTGCAGCCAGTGTCTATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTG  
CTGTATGATGTGGCCGGGAGTGACAAGTACCAGGTCAACAACAACATGATGACAAGTACTCGCCGCTGCCCTGC  
AGCAAAATCATCCAGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAACTGCGAG  
CACTTTGTGAATGAGCTGCGCTATGGAGTCGCCCCGAGTGACCAGGTCAAGAGATGTCATCATCGCTGCAAGCGTT  
GCAGGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAGCAATAACTG  
AAAAAGACTGTCCTGTCAGCGATGACTTTATACATCAAGGGGGTCTTGTTTTGCTAGAGAGTTTGGGGTTTGGTT  
TGTGGATTTTATTGTGATTTATAATAAGGCTTATTTTCACAGAATAAAATAAAGCAAAACGAGGGAGGATTTTAT  
TGGGGGAAGTGCAGC

98/5332  
FIGURE 86

AGTTAAACACCAAAGCTGTCTCTCACACTGGTGGTTCCAGGATAAAGCCTCGGCCTGGGGCCTGGTCTGCACGTT  
AGGCGCCGCGCCGAGCTCGCAGGAGGACCCGAGCCAGCCGCCCCCTTCCCGCACAGCCTGCTGGGAGTTGTAGTT  
CAGTCGTCGGAGAACCACGCCAAGCCCCGCCCCAGATGAGTGCGCAGTATGAGGACCGCTGGCCGGGACCCAGTG  
AGCGCGGGACTACAATTCCCAAAGGACGGTAGCACTCAGCGCCCCGCCAACAGAGATGATGCCATGGAGAGCAGC  
AAGCCTGGTCCAGTGCAGGTTGTTTTGGTTTCAGAAAGATCAACATTCCCTTTGAGCTAGATGAGAAAGCCTTGCC  
AGCATCCTCTTGCAAGACCACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGC  
AAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCAAATTGGTTGGGT  
GACCCAGAAGAACCGTTAACAGGATTTTCCTGGAGAGGGGGATCTGATCCAGAAACCACTGGGATTCAAATCTGG  
AGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGTTGCAGTTGTTCTGATGGATACCCAGGGGGCATT  
GACAGCCAGTCAACTGTGAAAGACTGTGCTACCATCTTGTCTAAGCACTATGACTAGTTCTGTTTCAGATTTAT  
AATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTGCAGCTCTTCACAGAATACGGTCGTCTGGCAATG  
GATGAAATTTTCCAAAAGCCTTTCCAGACACTGATGTTTTTGGTTAGAGATTGGAGTTTCCCTTATGAATATAGC  
TATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTACAGGTGAAGGAACATCAACATGAAGAAATTCAG  
AATGTTTCAAATCACATTCACTCATGTTTCTCCGATGTCACCTGCTTCTCTTACCACATCCAGGACTCCAGGTG  
GCCACAAGCCCTGACTTTGATGGGAAATTTAAAGATATTGCTGGTGAATTCAAAGAGCAGTTACAGGCACTGATA  
CCGTATGTATTAAACCCATCTAAGTTAATGGAAAAGGAGATCAATGGCTCAAAGGTCACCTGTGCGGGGACTACTG  
GAGTATTTTAAAGGCATATATTAAAATTTATCAAGGAGAAGATCTGCCTCACCCTAAGTCCATGCTTCAGGCCACT  
GCTGAAGCCAACAACCTTAGCAGCTGCAGCCTCTGCCAAGGACATTTATTATAACAACATGGAAGAGGTTTGTGGG  
GGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAGCACTGTGAATTCAAACAACCTTGCTCTGGACCAT  
TTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTTCAGCTTTTGGTTACCAGCAGGAGCTGGAGGAGGAAATCAAG  
GAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAACGTCTTCAGCACCTTCCGAACCCCTGCAGTGCTG  
TTCACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACTGGCTTCATAGGTCTTGAGGTTGTAGCCCAGTTG  
TTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACCTGGGGCTACATCAGGTATTCTGGTCAATATCGT  
GAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTGGAGCAGGCTTCTTCTCATATCGGTAATTCACCT  
CAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATGGATAAAAAAGCTCAATAGCATCTTAACGTGAAG  
ATCAAACAAGAACAACAAGCCCCTACTGATTTCTGGGTTTCTGCCACGGCCACAGGTTTCATATCCAGAGGAAT  
GGCAGATCTGAGACGATCCAGGAAGAGCTAAACATGGCCCTGTAATAAATGAGCAGACCTCTCCTGTGGTTTCA  
AATTATTAAACACACTTCCATTTCTCTTGGAAGCATTTCTTTTCTTGCTGTTATAGATGCAAGCCTGTGTCTAT  
TTTCATATTACTCTGCTTTGTGCACTTTATGGAGGAGGAAGCTAGAGGAAAAATGGAAATGCAGCTTTTAAGTTC  
TTTATGTGCCACTTAGTGCTTTTAAGATTGATTCCATGGTTTTGCACACACGATGGGGAGGGGATGGAGGATAA  
CCTCATGAAAGGTGCCGTTTTCGGGTGAACTTGACATTTCTTTTATACTTTACTCTTTTGAGAAGGATTCTTTT  
TTTTTTTTTTTTTTTTTTTTGAGTTGGAGTCTCGCTCTGTACCAGGCTTGAGTGCAGTGGTGTGATCTTGGCTCA  
CTGCAACCTCTGCCTGCCGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGTACG  
CCACCATA



99/5332  
**FIGURE 87**

ATGCCTAGCCCATCCCCAAAATGGGAGTCTCAGGAAGCTATATTTGAAGCATTACTGGAAAAAGGGAGAAGACCT  
GTGGGTGGGGCCCTCCTGGCGGGGGCCCCAGGGCAAGATCTTCAGCTGGAAGGGGGTGCCTTGGGGTCTGGGGG  
AGTGGCCCCCTGCCCTCCTCCAGGGCCAGGGGACCAGCATCTTCAGGCAGGAAATATTAGACCACTGTGAGGCC  
CGGGCCTCGAGGCCTGGAAGAGCCGCATCCCTGGCCGTGACCACCGGCGCTACTACCACGACCACTGGCGGCTG  
GAGTACCTGATGGACTTCAACCCTGCCCAGCACGGCATGGTGTGCATGGTGTGCGGCAGCTCCCTGGCCACCCCTC  
AAGCTCAGCACCATCAAGCGCCACATCCGCCAAAAGCACCCCTACTCCTTGCAATTGGAGTCCCCGGGAGAAGGAA  
GTCATCAGCAACAGCTGGGATGCACACCTGGGGCTGGGGGCCCTGCGGAGAGGCCGAGGGCCTGGGGGTGGGGGAA  
GGACAGTGGGGTGAGAGGGTCTCCGATGTCCATGACAGCTTGACATTCTGTGGTTTTTTGAAGTATCAAGGAGAG  
AAGTTGGGTGACAGGCAGTGGAAAGGCTTGGAGCAGGGAGGCCTGGCTGGGGTGGGCAAAGCCCCAGCTGGTGGG  
GGCTGCCGGCGCCAGCGGCGAGGGGGCCAGTGGCACCCCGGGCTCGGCGTCTGCGCCTCTCAGCCTCCCGGAGG  
GCCGGGGGCGAGCAGGGGGCTGGGGGCCCGGCGCCTGGAGAGGAGGCTGAAGGAGTCCCTGCAGAACTGGTTCCGG  
GCCGAGTGTCTCATGGACTATGACCCGCGGGGGGAACCGGCTGGTGTGCATGGCCTGTGGCCGGGCACTGCCCAGC  
CTGCACCTGGACGACATCCGTGCCACGTGCTGGAGGTGCACCTGGCTCCCTGGGGCTCAGCGGCCCCCAGCGC  
AGTGGCCCTGCTGCAGGCCTGGGGGGGGCCAGCCCGAGGCGCTGTCTGAGCTCACCCAGTCCCCACCAGGCGATGAC  
CTCGCCCCCAGGACCTGACCGGAAAGAGCCGGGACTCGGCCCTCCGTGCTGGAGCCCCCTCCTCTCAGGATCTC  
AGCCCCCAGACGAGCGCTGGCGGCTGGAGTACCTCATGGAGTTGGACGGCGGCGGGCGCGGCTGGTGTGCGGG  
GTGTGCGGGGGCGCGCTGGCCTCGCTCAAGATGAGCACCATCGAGCGCCACATCCGCCGGCGCCACCCGGGCTCC  
ACGCGCCTCGGCGGGCCTGTCCAGGCCCTCATCGCCGGGAGTGGAGCGAGAAGGCCGCCACCTGCTGGCCCTG  
GGGCCGCCCGCCCCGAATCGGAAAACCCCTTACCGACGCGGGCGGGCCGACAAGAGGCGTGACCCGGCAGAACGC  
GTTAACGCTCGCCGGCACCAGGCGCGGCCCCACCACGATGACGTGCAACTGGTCAATGCGACCCGAACCGTTGAA  
CCCTCAAATCGGTGGCAAACGTGACCCGCAAGCGAACAGCTACATTTCTGCTCAGCAGACCCGAAGCCAACCG  
ACCCTCTGGGTGACCCGCGCCCCGGAGGTGCGGATGCGCGACCCCTTTCGACCGTCAGGCGGCGCGGCCGAGCCTTC  
GCAAAACGACCCAAGCCGAACCGCCGACTTTTCGCTTTTTCGCTCTTACACGCGCCTCTCCACATAGCGAAAAG  
GCGGGCGACTTTCGAGGCACGGAGGTGCGGAGAACCGACCTGGTACTACGTCCCTTTAACGTTTTTAAGCGACGGG  
ACACGAGCAAAACCTGATGCACGAAAAACAACGTGAAAAAAAACATGAAAAATAAAAAAGGCAACCCGACTCGG  
ATTCCCCCGGTCCGTACCACTTCTAAGTCGGCTGTTTCGACGCGGCGCGAAGCGGGCCGCGAGGCCCGCGTTAGCT  
GCGGCATTCCACGGGAAGACGCCGACACAGAGGCTGTTACCTTGGAGACCTGCTGCGGATATGGGTACGACCTC  
GCACGAAAATTACACCGTCTCCCTCGGATTTTCAAGGGCCGACGCGAGCTCACCGGACAGCACAAGAGACGTGCT  
GCTTTACGGGGCCCATGTCCCTATCTCCGGGCGAACCATTCCAGGGTCCCGCCCCCTTACCAAGAAAAGAGAAC  
TCTTCCCGGGACCCACGTGCGCGTTTCCGAGTTCGTTTTCGCTTGCCGCACTAGGCGCCGGAGCGCCAATCTCCGC  
GTCGAGACGGGTGCGGAAGGTGGCTGGCGTCAGCCGCTGACCCGCGGCACCTCGCGAGGGAGCGACCGCTCGGAA  
CCGCGCCGAGACGACCCGGGACTGAGGACAGTCCCGGACCGCGACACGACGCTGCTCGAACGGCTTCCCCGGCCC  
CGCGAACGGGGCAGCCGGTTCGCGGCCCTCGTCCGACGCTAGTGCGCCGAGCCGTGCGCCGGCGACGCGAGTCGAG  
GCCCGCGAAGGTCCCCGATCCCGCGACCCGGTCTCCGGCCCGCCTGAAAGCGACCGAACGACCCGACAGGCCCTC  
CCGTTTGCCTCTCGACGGTTTACGTACTTTTTAACTCTCTCTCCAAAGTGCTTTTCAACTTTCCCTCACGGTAC  
TTGTTCGCTATCGGTCTCGTGACCGTATTTAGCCTTAGATGGAGTTTACCACCCGCTTTGGGGTGCATTCCCAA  
CAACCCGACTCCGGGAAGACACCGAGAGCCCGGGCCAGCCGCGCCGAAGGGCCTGACACCCGCTATGGGATGAAG  
CCTCGATCAGAAGGACGTGGGCAGCCGGTCCGCGCTCGAAGCGAATTCCATACGCCACAATTCCGTCCGCTCCAT  
AAGCGGCCGGATTTCGGCGCTGGGCTCGTCCCGCTTCACTCGCCGTTACTGA

100/5332  
**FIGURE 88**

CAGGTGACCAGCGCCATGTCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT  
GACAGTCCAAAGGGTTCCCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCTGGTCCAGCTCCCACTCGC  
TGCCTCCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG  
CTCAGCTCCCTGCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCACTATGGTGTGGCATCC  
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCCAACGAG  
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTCACCAAGTGCCTGCGGGTGGGCATGCTC  
AAGGAGGGAGTGCGCCTGGACCGCTCCGGGGTGGGCGGCAGAAGTACAAGCGGCGGCCGGAGGTGGACCCACTG  
CCCTTCCCGGGCCCCCTTCCCTGCTGGGCCCCCTGGCAGTCGCTGGAGGCCCCCGGAAGACAGCAGCCCCAGTGAAT  
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCCGCAGGCCCTGATGGG  
CACCTCCCAGCCGTGGCTACCCCTCTGTGACCTCTTTGACCGAGAGATTGTGGTCAACATCAGCTGGGCCAAGAGC  
ATCCCAGGCTTCTCATCGCTGTCTGCTGTCTGACCAGATGTCAGTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG  
CTGGGTGTGGCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCCTGGATGAAGAG  
GGGGCACGGGCAGCTGGCCTGGGGGAAGTGGGGGCTGCCCTGCTGCAACTAGTGGCGCGCTGCAGGCCCTGCGG  
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC  
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCCGGGCTGGCCCCGGA  
GGGGGTGCTGAGCGGCGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG  
CTGGCCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGAGATGCTCGAGGCC  
ATGATGGACTTGAGTGCAAGGGGTGGGACTGGTGGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG  
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCTGGGA  
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTGAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA  
GTGCTGCCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG  
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCAGTGGGTGATGCTTTT  
GCTGCTGCTTAATCCTACCCCTCTTCAAAGCAGAGTGGGACTTGGAGAGCAAAGGCCCATGCCCCCTTCGCTCC  
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCCTGGAC  
CCCTGGGGTGGCCAGGGCTTCCCCATCAGCTCCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC  
CCTGCAGAGCAATAACACTATATTTATTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC  
CAGAGCCCTTGACTGTACAGAGACTCTATTTTAATGTATATTTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC  
CTTTAATGAGAAAAAATATATAATACCGAGCTC

101/5332  
**FIGURE 89**

TCCGGTTCCGGCCTGGCGAGAGTTTGTGCGGCGACATGAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGC  
GGGGGGTGGGGTCCCGTGGCTTCCCCCTGCGCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATTCAACC  
CCAACTTCGTGGCGCGTATGATACCTAAAGTGGAGTGGTTCGGCGTTCTGAGGCGGCCGATAACTTGCGTCTGA  
TCCAGGTGCCGAAAGGGCCGGTTGAGGGATATGAGGAGAATGAGGAGTTTCTGAGGACCATGCACCACCTGCTGC  
TGGAGGTGGAAGTGATAGAGGGCACCTGCAGTGCCCGGAATCTGGACGTATGTTCCCATCAGCCGCGGGATCC  
CCAACATGCTGCTGAGTGAAGAGGAACTGAGAGTTGATTGTGCCAGGCGCCAGTTTTTCTTGTTATGACTGTGT  
ATTTTTGTTGATCTATACCCTGTTTCCGAATTCTGCCGTGTGTATCCCCAACCCCTTGACCCAATGACACCAAACA  
CAGTGTTTTTGAGCTCGGTATTATATATTTTTTTCTCATTAAAGGTTTAAAACC

102/5332  
**FIGURE 90**

AGGGCACAGCCAGCAGCGAGGTGAATGCCACTGAGGAGATGTCACGCTTGTCAACTACATCGAACCTGTCAAGT  
TCAAGTCCTTTGAGGCTGCTCGAAAGAGGAACAAATGCTTCGAGATGTCGTCCTTTGTGGAGACCAAGGCCATGG  
AGCAACTGACCAAGAGCCCCATGGAGTTTGTGGAATACAACAAGCAGCAGCTCAGCCGCATCTACCCCAAGGGCA  
CCCGCGTGGACTCCTCCAACCTACATGCCCCAGCTCTTCTGGAACGTAGGGTGCCAGCTTGTTGCGCTCAACTTCC  
AGACCCTCGATGTGGCGATGCAGCTCAACGCGGGCGTTTTTGTAGTACAACGGGCGCAGCGGGTACCTGCTCAAGC  
CGGAGTTCATGCGGCGGCCGACAAGTCCTTCGACCCCTTCACTGAGGTCATCGTGGATGGCATCGTGGCCAATG-  
CCTTGCGGGTCAAGGTGATCTCAGGGCAGTTCTGTCCGACAGGAAGGTGGGCATCTACGTGGAGGTGGACATGT  
TTGGCCTCCCTGTTGATACGCGGCGCAAGTACCGCACCCCGACCTCTCAGGGGAACCTCGTTCAACCCCGTGTGGG  
ACGAAGAGCCCTTCGACTTCCCCAAGGTGGTGCTGCCCCAGCTGGCTTCACTTCGCATTGCAGCCTTTGAGGAGG  
GGGGTAAATTTCGTAGGGCACCGGATCCTGCCTGTCTCTGCCATCCGCTCCGGATACCACTACGTCTGCCTGCGGA  
ACGAGGCCAACCAACCGCTGTGCCTGCCGGCCCTGCTCATCTACACCGAAGCCTCGGACTACATTCTGACGACC  
ACCAGGACTATGCGGAGGCCCTGATCAACCCCATTAAGCACGTCAGCCTGATGGACCAGAGGGCCCGGCAGCTGG  
CCGCCCTCATTGGGGAGAGTGAGGTGAGTGTGATGATCTCATCGCCAGCATCCTCTCAGGATGAGCTCCGAGGTC  
ACAAGGCTCTGGTCAAGCTCCGGAGCCGGCAAGAGCGAGACCTGCGGGAGCTGCGCAAGAAGCATCAGCGGAAGG  
CAGTCACCCCTACCCCGCCGCTGCTGGATGGCCTGGCTCAGGCACAGGCTGAGGGCAGGTGCCGGCTGCGGCCAG  
GTGCCCTAGGTGGGGCCGCTGATGTGGAGGACACGAAGGAGGGGGAGGACGAGGCAAAGCGGTATCAGGAGTTCC  
AGAACAGACAGGTGCAGAGCCTGCTGGAGCTGCGGGAGGCCAGGTGGACGCAGAGGCCAGCGGAGGCTGGAAC  
ACCTGAGACAGGCTCTGCAGCGGCTCAGGGAGGTCGTCTTGATGCAAACACAACCTCAGTTCAAGAGGCTGAAAG  
AGATGAACGAGAGGGAGAAGAAGGAGCTGCAGAAGATCCTGGACAGAAAGCGCCATAACAGCATCTCGGAGGCCA  
AGATGAGGGACAAGCATAAGAAGGAGGCGGAACCTGACGGAGATTAACCGTCGGCACATCACTGAGTCAGTCAACT  
CCATCCGTCGGCTGGAGGAGGCCAGAGCAGCGGCATGACCGTCTTGTGGCTGGGCAGCAGCAGGTCTTGC AAC  
AGCTGGCAGAAGAGGAGGCCAAGCTGCTGGCCAGCTGGCCAGGAGTGTGAGGAGCAGCGGGCGAGGCTCCCCC  
AGGAGATCCCGCCGAGCCTGCTGGGCGAGATGCCGGAGGGGCTGGGGGACAGGGCCTCTGGTGGCCTGTGCAAG  
CAACCGGTACGCACCCCGGGAGCAGCGGGCACCTGTGCGGCGCTGACTCGGAGAGCCAGGAGGAGAACACGCAG  
CTCTGA

103/5332  
**FIGURE 91**

CACGGGCGGGGCGGGGCTGGGTCCACCGGGGTTCTGAGGGGAGACTGAGGTCTTGAGCCGACAGCCTCAGCTCC  
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG  
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACCGTTGGCCCCAGCTGTGCCTTGACTACGTAACATCTTGT  
CCTCACAGCCCAGAGCATGTTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG  
GGGCCTGGGCCCCAGCCCCGAGGGGACGGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCT  
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG  
GAGTCGCCACAGTCCTACCCCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCTTTCGGGG  
CCGCTCGCGCTCGGCGCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA  
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTC  
CAGCTGGACGCGAGTCTTCCAGTCCTGGTGGGATCGGAACCTGGGCAGGGGAAGCTCCGCCCCCTCCAGTGACC  
TTCGCTCCACATCCCGAAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC  
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGC  
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTTGGGTTTTCCGCCCACAGCCGCGGAAGTGGCTCCGT  
GGCCCCGCCCTCAGGCTCCGGGCTTTCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCA  
CCGGGACCCGAGCCCCCGCGATGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCGTCTGTGCCG  
CC

104/5332  
**FIGURE 92**

AGCGGCCGCTGCCCTGACCCGACGGGTATCAGCCGGCTCTCCCCCTCCACCCAGGACGACATGAACGACCGAGGC  
CAGGGAGTCCTCTCCTTGGGCCTCTGCATCCCCCATCCTTGGCTCTGGGGTAGGCCCAGGGAGGAGACACCCCC  
AACCCTATCCGGTCTGTCTGGAGAAAAGAGACTGCCCTTCCATGCCCTGAGTGAGGGGGCCTGGGGCCCAGGC  
TGCCTGTGTTCCCCAAGGGCAAGGGTCTCTCTGTTGAGGAGGAGGGGCCTGTCAGCCACAACCTTCTTTCTCCTG  
AGCGCCCCATCTCCCTCTCTGCACCCCTGCAATTCCCACCCCTCCGTATTTATTTCCCTGGTCCCGCCGACAGTCC  
CCTCCTTGTCTGTCTCCGGGATTCAGGCCTCCCTCCCTGACATGGAGAGTAACTGTCTGGCCTGGTGCCTGCTG  
CCGGGCTGGTGCCTGCGCTGCCACCTGCTGTGACCCTGGGGCTGACAGCTGCCTACACCACCCTGTATGCCCTGC  
TCTTCTTCTCCGTCTATGCCAGCTCTGGCTGGTGCTTCTGTATGGGCACAAGCGTCTCAGCTATCAGACGGTGT  
TCCTGGCCCTCTGTCTGCTCTGGGCCGCTTGCCTACCACCCTCTTCTCCTTCTACTTCCGAGATACTCCCCGCG  
CCAACCGCCTGGGGCCCTTGCCCTTCTGGCTTCTCTACTGCTGCCCCGTCTGCCTGCAGTTCTTACCTTGACGC  
TTATGAACCTCTACTTTGCCCAGGTGGTGTTCAAGGCCAAGGTGAAGCGTCGGCCGGAGATGAGCCGAGGCTTGC  
TCGCTGTCCGAGGGGCCCTTGTGGGGGCCCTCGCTGCTCTTCTGCTGGTGAACGTGCTGTGTGCTGTGCTCTCCC  
ATCGGCGCCGGGCACAGCCCTGGGCCCTGCTGCTTGTCCGCGTCTGGTGAGCGACTCCCTGTTTCGTATCTGCG  
CGCTGTCTCTTGTGCTGCTGCTCTGCTCGTCGCCAGGCGGGCGCCCTCCACTAGCATCTACCTGGAGGCCAAGG  
TAGGGCTGCAGCACTGATGCCCAGGTGTCTTTTGGGTCTCTCGGCAGCGGTTCTCAGGGTGTAGAG

105/5332  
**FIGURE 93**

CAGGCTTAGGCTCTCTTTGGGCCTCCCACTCGCCTTCCTTTCCCTTCTCGGTGCCCTCCTCTCTTTTCTCACCCG  
GTAGTCCCAGACAGGGGCTGAGGGCCGGGCAGCGGAGGTAAGGGGAAGGCTGGAGATAGGAGGGGACTGGGTGT  
GTCCAGCCAGAGGGATGTCTGTGGACAGTGCAGCTGGGGGCTTTATGGATCTTTGGGTGTGTAGGGGATAGAGGA  
GGAGGGTGTGGGTGTGAGGCCAGCTCAGTGACCCAGCATCCCTGGTTTGGCCGAGTGACGACAGCTCCCCAG  
GAGCCCCCGCCCGGCCCTCCAGGCGGGCAGTGGAGCTGGCCCGGCGCCTGGGCGCGCCATGCGCAGCACCACG  
CTCCTGGCCCTGTGTCGCTGGTCTTGCTTTACTTGGTGTCTGGTGCCCTGGTGTTCGGGGCCCTGGAGCAGCCC  
CACGAGCAGCAGGCCCAGAGGGAGCTGGGGGAGGTCCGAGAGAAGTTCCTGAGGGCCCATCCGTGTGTGAGCGAC  
CAGGAGCTGGGCCTCCTCATCAAGGAGGTGGCTGATGCCCTGGGAGGGGGTGCGGACCCAGAAACCAACTCGACC  
AGCAACAGCAGCCACTCAGCCTGGGACCTGGGCAGCGCCTCTTTTTCTCAGGGACCATCATCACCACCATCGGC  
TATGGCAATGTGGCCCTGCGCACAGATGCCGGGCGCCTCTCTGCATCTTTTATGCGCTGGTGGGGATTCCGCTG  
TTTGGGATCCTACTGGCAGGGGTGCGGGACCGGCTGGGCTCCTCCCTGCGCCATGGCATCGGTACATTGAAGCC  
ATCTTCTTGAAGTGGCACGTGCCACCGGAGCTAGTAAGAGTGCTGTCGGCGATGCTTTTCTGCTGATCGGCTGC  
CTGCTCTTTGTCTCACGCCCACGTTCTGTCTGTCTATATGGAGGACTGGAGCAAGCTGGAGGCCATCTACTTT  
GTCATAGTGACGCTTACCACCGTGGGCTTTGGCGACTATGTGGCCGGCGCGGACCCAGGCAGGACTCCCCGGCC  
TATCAGCCGCTGGTGTGGTTCTGGATCCTGCTCGGCCTGGCTTACTTCGCCTCAGTGCTCACCACCATCGGGAAC  
TGGCTGCGAGTAGTGTCCCGCCGCACTCGGGCAGAGATGGGCGGCCCTCACGGCTCAGGCTGCCAGCTGGACTGGC  
ACGGTGACAGCGCGCGTGACCCAGCGAGCCGGGCCCCGCCGCCCGCGGAGAGGAGCAGCCACTGCTGCCT  
CCACCGCCCTGTCCAGCGCAGCCGCTGGGCAGGCCCGGATCCCTTCGCCCCCGGAGAAGGCTCAGCCGCTTCC  
CCGCCCCAGGCCTCGGCCCTGGATTATCCAGCGAGAACCTGGCCTTCATCGACGAGTCTCGGATACGCAGAGC  
GAGCGCGGCTGCCCGCTGCCCCGCGCGCCGAGAGGTGCGCCGCCGCCAAATCCCCCAGGAAGCCCGTGCGGCC  
CGCGGCCCCGGGCGTCCCCGAGACAAAGGCGTGCCGGGTGTAGGGGCGAGGATCCCTGGCCGGGCCTCTCAAGCTCT  
CCCCGGCATGCCTGGCTTGTTTGACCAAAGAGCCCTCTTCCACGAGACTGAAGTCTGGGGAGGAGGCTACAGTT  
GCCTCTCCGACCTCCTCCCTGGCCCCGGCCCTCCCTCACTTCCATCCATCTCTAGACCCCCCAAGGCTTCTG  
TGTCGCTGCCCCGGGCGGGTGTATCCCTCACAGCACCTCACGACTGTGCCTCAAAGCCTGCATCAATAAATGAAA  
ACGGTCTGC

106/5332  
**FIGURE 94**

GAGGTGGCTGATGCCCTGGGAGGGGGTGCGGACCCAGAAACCAACTCGACCAGCAACAGCAGCCACTCAGCCTGG  
GACCTGGGCAGCGCCTTCTTTTTCTCAGGGACCATCATCACCACCATCGGCTATGGCAATGTGGCCCTGCGCACA  
GATGCCGGGCGCCTCTTCTGCATCTTTTATGCGCTGGTGGGGATTCCGCTGTTTGGGATCCTACTGGCAGGGGTC  
GGGGACCGGCTGGGCTCCTCCCTGCGCCATGGCATCGGTACATTGAAGCCATCTTCTTGAAGTGGCACGTGCCA  
CCGGAGCTAGTAAGAGTGCTGTGCGCGATGCTTTTCCTGCTGATCGGCTGCCTGCTCTTTGTCCTCACGCCCACG  
TTCGTGTTCTGCTATATGGAGGACTGGAGCAAGCTGGAGGCCATCTACTTTGTCATAGTGACGCTTACCACCGTG  
GGCTTTGGCGACTATGTGGCCGGTAAACTGGGGGAGGGGGGCGCAACCTGGAAACACCAGAAGTCTTCTACAAG  
GGCTGTGGCCTCCACAAAGTCCAGATGTCCTTGTGCTACCCTGTGCCCGTTGGGACTGCAGAGCCCCTGGAGAA  
CAAGAACTTGGCCGCTACATGTCCGCATCCCCACAGAGCCTTCTCTGGAGACAGTGTCTGGAAGTGTGACGTT  
TTTAGGTACCATTGA



107/5332  
**FIGURE 95**

GCGCCGTAAATAGAGTCCAAGTGGGCGGAGAGCCGTCCCGCGCCCGCGCTCATGTCTCTACAGAGCCGACTGTC  
CGGCCGCCTGGCACAGCTGCGCGCGGGCGGGGAGCTGCTCGTCCCCCGCGCCCCCGGCCCGGACACTTGGCGGG  
TGCCACGAGGACCCGACGACGACGTGCGGTCCCCCGGCGTTCTGGGCGTGTTCGGCCGCGGTGCGCGGACCTC  
GGCGGGAGTTGGGGCGTGGGGGGCGACGNCGGTGGGGCGGACAGCCGGGGTGCACACTTGGGCCCCCTGGCCAT  
GGCGGGCAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGCCTGAGTGACAA  
GCAGCGGGAGGAACATTACTTCTGCAAGGACTTTGTCAGGCTGAAGAAGATCCCGACATGGAAGGAGATGGCGAA  
AGGGGTGGCTGTGAAGGTGGAGGAGCCCAGGTATAAAAAGGACAAGCAGCTCAATGAGAAAATCTCCCTGCTCCG  
CAGCGACATCACCAAGCTGGAGGTGGACGCCATCGTCAACGCCGCCAACAGCTCCCTGCTCGGAGGCGGTGGCGT  
GGACGGCTGCATTTCATCGGGCCGCGGCCCCCTGCTTACCGACGAGTGCCGGACCCTGCAGAGCTGTAAGACTGG  
CAAGGCCAAGATCACCGGCGGCTATCGGCTCCCGGCCAAGTACGTCATCCACACAGTGGGGCCCATCGCCTACGG  
GGAGCCCAGCGCCAGCCAGGCTGCCGAGCTCCGCAGCTGCTACCTGAGCAGTCTGGACCTGCTGCTGGAGCACC  
GCTCCGCTCGGTGGCGTTCCCCTGATCTCCACCGGCGTGTGGCTACCCCTGTGAGGCGGCCGCCGAGATCGT  
GCTGGCCACGCTGCGAGAGTGGCTGGAGCAGCACAAGGACAAGGTGGACCGGCTGATCATCTGCGTGTTCCTCGA  
GAAGGACGAGGACATCTACCGGAGCCGGCTCCCCACTACTTCCCCGTGGCCTGAGGCTCCCGCAGCCCACCCTG  
ACCGGGACTGACCCGCCTTCGGGACCCCGCTCCCAGCTCTGAGAGGTGCGCAAAGCCTGCAGCCTGGCCTGGGCC  
TGGCCACCCCTTCTTTCCTCCGCGCCCCGCCCCGAGGAGCCTAATAAAGATCTCGTTGTGGC

108/5332  
**FIGURE 96**

GATTACAGGCATGAGCCACTGTGCCTGGCCATATGGGACATCTTGTAACCTGGGAGTTGGAGTCCTGGGTACAAGT  
CCTGGCTTCACCGTGTAACAGCTTTGTGACCTTGGGCAAATCACTTAACCTCTCTGAGCCTGTTTTCTTGCTGT  
AAAACAGGGATAAGAGTGCATGGGGACCCAGCCCCAGCACTGTGGGTTTGAGAGGAGACTGCTTGTTAGGATG  
CTCAGTACAGTGTCTGGCACAGAGTGAGCGCCAGGAGATGCCAGCTCTAGTTCTTGTTGCCATAGCTGCTGCTC  
TGGGAGGGCTGCTGAGACCCGCTGAACCGGGCATCCCATCAGCCAGCACCTGCCCTGCACCCAGCCCTTGGTGGG  
GCTGGGAACGGGGGAATGGTCCCTCTATCCTGAACAGGCTGAAGGCACCTCCTTCCCATATTCTGGTAGGGAAT  
CGAGTCACCTGCTGGACCTGGCATGGCCGAGGGGACGGCCCTCTCTGACTGCCAGAGTCTCTTGATGGGCTTC  
CTGACCATGAGGGCACAGGGCAGGCAGCCTGGGCCCTCACTCCCCACTGCCAGCAAGGCGGTCCATGCCTGCTC  
TGCCTTCCATTGGGAAAGATGTGTGGTCACATGGAAACGGCCTGTGCAGTGGGGCGTGAGGTGGGCTAGGACAGG  
GGATGTCCCCAGAGAAGCCAGGTGACTGAAGTGGCCCTGTCAGGGCCTGGCTGCCATCTGCTGAGGCCTAAGCTG  
CCAGAGAAGACCCCTGAAGGCCTTCAGGGGTGGGGTGGAGGGCGCTGGCATGCTTGTTGGCCAGCTTTGGAGGT  
CCCAGAGGCCAGGGCAGTGGCTGCTTACCAGACAGAACTGGCTAAGATCTGGTTCCCTCCACTATGTTGGGCAAGC  
CCCTGCCTCTTTTTTTTTTCTTTTTTTGAGACTGAGTCTCGCTCTGTACCCAGGCTAGAGTGAGTGGCGTGAT  
CTCGGCTCACTGCAAGCTTCGCCTCCCAGGTTTCATGCTATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTAC  
AGGCGCCCGCCACCACGCCCCGGCTAATTTTTTGTATTTTAGTAGATACGGGGTTTCACCGTGTTAGCCAGGATG  
GTCTTGATCTCCTGACCTCGTGATCCGCCCCCTCCACCTCCTAAAGTGCTGGGATTACAGGCATGAGCCACCGC  
ACCCGGCCAGCCCCTGCCTCTTTAGGCCTTGGGGTTTCCCATCTGTTTCCTTATGGGGGCATTAATAGGAAAAAA  
TGCAATTACCACACTGGAGGGGCTCATAAACGGTAGTGACTGTTATTAGCAGTGAGGGATCTCACTTCACCACCCA  
CAGGACTCCGAGCCCCTCGAGGGCAGGGGCAGCTCCATGGACTCTGGGTCTCCGTCCCTGGACAGGGCTCCTCTG  
CGGTGGGGGCAGCCCGAGCATGCCTGCCCCCTGGAAGGACATACAGGAACCTCATGATGGCTCATGGCTAAGGAGTC  
TTATGGGGAAGCAGGCTGCCCTGGTGGGCACGGCTGTGTGGGAGTCTCCTGCTCTGTCCACTCCTGGCAGGGGCA  
GGGACGCGGTGTTTTATATCCGCGCCGGGTGTCAGGAGATGGAAGCCAGGGAGGACGGGAGGATGCAGGAGCATG  
GAGAGCATGTGGGCTGCAGATCCGGGGGAGGATGGGCACCAGGACAGAGCTTGTCTGACAGTGGTGCGGGAGGC  
AGTGAGCAGAGGTGGGGCTGAGAGGTCACTGGCGGCTTCTCCACTGAGGCATGGCTGGCATTCCCTTCGGTTCA  
TTAAAACCCATCAGTGGGCCGGGCGGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGG  
ATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAAGATAGTGAAACCCTGTCTCTACAAAATACAAAATT  
AGCTGGGCATGATGGCAGGTGCCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG  
AGGCAGAAGTTGCAGTGAGCTGAGATGGTGCCACCGCACTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTT

109/5332  
**FIGURE 97**

AGGTATTTCAGGCTCCAGGCCAGGTGGGGCCGGACGCCCCAGCCATCCACCATGGTGGTGGCACACCCCACCGCC  
ACTGCCACCACCACGCCCCACTGCCACTGTCACGGCCACCGTTGTGATGACCACGGCCACCATGGACCTGCGGGAC  
TGGCTGTTCTCTGCTACGGGCTCATCGCCTTCTGACGGAGGTTCATCGACAGCACCACCTGCCCCCTCGGTGTGC  
CGCTGCGACAACGGCTTCATCTACTGCAACGACCGGGGACTCACATCCATCCCCGAGATATCCCTGATGATGCC  
ACCACCCTCTACCTGCAGAACAACCAGATCAACAACGCCGGCATCCCCAGGACCTCAAGACCAAGGTCAACGTG  
CAGGTTCATCTACCTATACGAGAATGACCTGGATGAGTTCCCCATCAACCTGCCCCGCTCCCTCCGGGAGCTGCAC  
CTGCAGGACAACAATGTGCGCACCATTGCCAGGGACTCGCTGGCCCCGCATCCCGCTGCTGGAGAAGCTGCACCTG  
GATGACAACCTCCGTGTCCACCGTCAGCATTGAGGAGGACGCCTTCGCCGACAGCAAACAGCTCAAGCTGCTCTTC  
CTGAGCCGGAACCACTGAGCAGCATCCCCCTCGGGGCTGCCGCACACGCTGGAGGAGCTGCGGCTGGATGACAAC  
CGCATCTCCACCATCCCGCTGCATGCCTTCAAGGGCCTCAACAGCCTGCGGCGCCTGGTGCTGGACGGTAACCTG  
CTGGCCAACCAAGCGCATCGCCGACGACACCTTCAGCCGCCTACAGAACCTCACAGAGCTCTCGCTGGTGCGCAAT  
TCGCTGGCCGCGCCACCCCTCAACCTGCCAGCGCCACCTGCAGAAAGCTCTACCTGCAGGACAATGCCATCAGC  
CACATCCCCCTACAACACGCTGGCCAAGATGCGTGAGCTGGAGCGGCTGGACCTGTCCAACAACAACCTGACCACG  
CTGCCCCGCGGCTGTTCGACGACCTGGGGAACCTGGCCCCAGCTGCTGCTCAGGAACAACCTTGGTTTTGTGGC  
TGCAACCTCATGTGGCTGCGGGACTGGGTGAAGGCACGGGCGGCCGTGGTCAACGTGCGGGGCCTCATGTGCCAG  
GGCCCTGAGAAAGGTCCGGGGCATGGCCATCAAGGACATTACCAGCGAGATGGACGAGTGTTTTGAGACGGGGCCG  
CAGGGCGGCGTGCCAAATGCGGCTGCCAAGACCACGGCCAGCAACCACGCCTCTGCCACCACGCCCCAGGGTTCC  
CTGTTTACCCTCAAGGCCAAAAGGCCAGGGCTGCGCCTCCCCGACTCCAACATTGACTACCCCATGGCCACGGGT  
GATGGCGCCAAGACCCTGGCCATCCACGTGAAGGCCCTGACGGCAGACTCCATCCGCATCACGTGGAAGGCCACG  
CTCCCCGCTCCTCTTTCCGGCTCAGTTGGCTGCGCCTGGGCCACAGCCAGCCGTGGGCTCCATCACGGAGACC  
TTGGTGCAGGGGGACAAGACAGAGTACCTGCTGACAGCCCTGGAGCCCAAGTCCACCTACATCATCTGCATGGTC  
ACCATGGAGACCAGCAATGCCTACGTAGCTGATGAGACACCCGTGTGTGCCAAGGCAGAGACAGCCGACAGCTAT  
GGCCCTACCACCACACTCAACCAGGAGCAGAACGCTGGCCCCATGGCGAGCCTGCCCCCTGGCGGGCATCATCGGC  
GGGGCAGTGGCTCTGGTCTTCTTCTTCTGGTCTTGGGGGCCATCTGCTGGTACGTGCACCAGGCTGGCGAGCTG  
CTGACCCGGGAGAGGGCCTACAACCGGGGAGCAGGAAAAAGGATGACTATATGGAGTCAGGGACCAAGAAGGAT  
AACTCCATCCTGGAAATCCGCGGCCCTGGGCTGCAGATGCTGCCCATCAACCCGTACCGCGCCAAAGAAGAGTAC  
GTGGTCCACACTATCTTCCCCTCCAACGGCAGCAGCCTCTGCAAGGCCACACACACCATTTGGCTACGGCACCACG  
CGGGGCTACCGGGACGGCGGCATCCCCGACATAGACTACTCTACACATTGATGCCCCGCCACCCGGGCTGCCCCG  
CCTCAGCCCCAGCTGCCCTGGCGTGGCCATGTGGCTTTGCCAGCCTGCTGCAATCCAAGAGAGCAAGGAAGAGA  
AATTCCATGGGTGACTTTCTCCGAGAAAGCAAAGTTTGGGGAGGGCTGACGATTTTGTAGAACACAACAGTGA  
CAATTTTTTTTTAAAAAGATAGAAGGCAGGAGGGGAATTGACATTGTTGAAGACATAATTTATACCAAGTTATG  
CCAGTTGGGGAGGGAAGGACTAAAAATAATATTGCAGGCAGGGCTGGGTTGGGTTTTTTTTTTTTTCCCCCTGAA  
CTGGAAGGATACTACCTGTACAACATCTGTGGACACCTCATGCTCTGTTCAAGGCCATCACAAAGGAACCGCCAG  
GGAGAAGCAGCCGGCTCTCAAAGCTCCCACGCAGCTCTCCCGCCACTGGCCACTCGCTGGCGACCCGATGGAAGG  
TTTTCAGGCTCCTCACAAAGGAGAGAGGGAAGAAAAGATCTTTTGCCTGGAGATATGGTCTGAAATCTCTCCC  
CTGGCTTATTCCATACCATTTCCTTGCAGATTTGCAGAAACATGGCATCTTTCCTGCAATTCTTTGACAATCA  
TGATGTCGATTAAAAAAAAAAAAAC

110/5332  
**FIGURE 98**

GGCGAGGAAGGGGCGGGAGCCGGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGCGTGCGGTTGGGAAC  
GCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG  
AAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT  
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG  
GATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAGCAGCTCTAGAGTTC  
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATAACCTCAACTGAAA  
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTAT  
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA  
CGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCCTCCTTGGG  
GTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACC  
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACGAT  
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG  
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG  
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC  
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGAT  
GTGCTCAAGAAATGCCAGCAGG

111/5332  
**FIGURE 99**

CCCAACGCACAGTACTGGTCCCAGTTTCACAGCGTGAGGCCACAGGGGCCCCAGTTGAGGCAGCAGCAACACAAA  
CAAAACAAACAAGTGCTGGGGTACTGCCTCCTCCTCATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGG  
AAGGTGAAGCAGATGCACCTTAACTTCATGGATGAAAAGGATCGGATCATCACAGCCTTCTACAACGAAGCCCGG  
GCACGGGCCAGGTCTGTCCCTGCTCTATTCTGCTCCCTGCTCCCTGTCCAGGAACCACACTTCGGGATCCCTATC  
CCAACCACCCAGGTGCCCTCTCCTCCAGGGCCAACAGAGGCATCCTTCAGCAGGAGCGACAACGGCTAGGGCAGC  
GGCAGCCGCCACCATCCGAGCCAACCAAGGCCCCGAGATCGTGCCCCGGGGCGCCGGCCCCCTGAGGGGCTCACC  
TGGATGGGGCCTGCAGTGCGTTCCCGCTTTGCTTCCTTCCTGGACGGCCCGCTCCCCGAAACGCGCGCAATAAAG  
TGATTCGCAGA

112/5332  
**FIGURE 100**

GGCGGCTGGTGAGCGCCCGCTGGAGGCTGGAGCTTCCGGGCCCTGGAAAGGGGTCCCCGCGCGCCCCGGGTGCGGA  
GGCAGACCCCTGGGTTTGGGGGACATGGGCATTTGGGGCGCCTGAACCCAAGACCTCTGGATGAGCTGCCCCGTT  
CAGACCATGGATCCTGAGGTGACCTTGCTGCTGCAGTGCCCTGGCGGGGGCCTGCCCCAGGAGCAGATACAGGCC  
GAGCTGAGCCCCGCCCATGACCGTCGCCCCACTGCCAGGTGGGGACGAGGCCATCACTGCCATCTGGGAGACCCGG  
CTAAAGGCCCAACCCTGGCTCTTCGACGCCCCAAGTTCCGCCTGCACTCAGCCACCCTGGCGCCTATTGGCTCT  
CGGGGGCCACAGCTGCTCCTGCGCCTGGGCCTTACTTCCTACCGAGACTTCCTGGGCACCAACTGGTCCAGCTCA  
GCTGCCTGGCTGCGACAGCAGGGTGCCACCGACTGGGGTGACACGCAGGCCTATCTGGCGGACCCACTGGGGGTG  
GGCGCTGCACTAGCCACAGCCGATGACTTCCTTGCTTCCTGCGCCGCTCCCGGCAGGTGGCTGAGGCCCCCTGGG  
CTGGTGGACGTACCTGGTGGGCACCCTGAGCCTCAGGCCCTGTGCCCTGGTGGCAGCCCCCAGCACCAGGACCTC  
GCTGGGCAGCTGGTGGTACATGAACTCTTTCCAGTGTCCTCAGGAGATCTGTGATGAGGTGAACCTGCCGCTG  
CTACCCCTGAGCCAGCCCCTGCTGTTGGGCATCGCCCGAAATGAGACCAGTGCTGGCCGAGCCAGTGCCGAGTTC  
TATGTCCAGTGACGCTGACTTCTGAGCAGGTGAGGAAGCACTACCTGAGTGGGGGACCCGAGGCCACGAGTCT  
ACAGGAATCTTCTTTGTGGAGACACAGAACGTGCAGAGATTGCTCGAGACGGAGATGTGGGCTGAACTCTGCCCC  
TCGGCCAAAGGCGCCATCATCCTCTACAACCGGGTTCAGGGAAGTCCCACTGGAGCGGCCCTAGGGTCCCCAGCC  
CTACTCCCGCCGCTCTGAAAATAATAAACGACTTTATTCTTGG

113/5332  
**FIGURE 101**

GGCACGTCGGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCAGCGATCTGGGGTGCGGGGCTCGGCCTCCCTG  
CGCTCCTGGCTGACCGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCTATGCCCTGCGCCAT  
GGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCCTGGGCACCCTCCTGCAGTTGCCCCAG  
TTCCGCGGCTTCTCTGCTGAAGATGTGCAGCGCGTGGTGGACACCAATAGGAAGCAGCGGTTGCCCCCTGCAGCTG  
GGGGATCCCAGCACTGGCCTTCTCATCCGGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGGAGCTGATG  
CCCCTGGAGACACCGCAGGCCCTGCCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCATCCATCCTA  
CTCAAAGGCCTGTCCTGCCAGGGAAGGACGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCCGGTATCATC  
AGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAATACCCTTC  
TTCCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCCTCCTTCCCAAGTACTTCAAGGAG  
GCCCTGCAGCTACGCCCTACCCGAAAGCCCCTTTCCTTGGCTGGTGAAGAGACAGAGTGTGAGAGTAGCCCC  
AAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACATAAAATATTAATTTATAAAAAAGAAATTTAAAAAGTAA  
CAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGT

114/5332  
**FIGURE 102**

AGACAGACCCCGTGCGGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA  
CCGAGGAGGAGATGATGGTGTGTTGCGGCCCTGCAGTACCACATCAACAAGCTGTCCCAGAGCGGGGAGGTGGGGG  
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT  
CGGCGCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTTCGGCCCC  
GGAAGCTGACCCTGAAGGGCTACCGCCAACACTGGGTGGTGTTCAGGAGACCACACTGTCTACTACAAGAGCC  
AGGACGAGGCCCTGGGGACCCCATTCAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT  
CCGGCCAGAAGTTCTGCATTAACTCCTAGTGCCCTCCCCTGAGGGCATGAGTGAGATCTACCTGCGGTGCCAGG  
ATGAGCAGCAGTATGCCCCTGGATGGCTGGCTGCCGCTGGCCTCCAAAGGCCGCACCATGGCCGACAGCAGCT  
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCCTCAGCCTGCAGCGCACGGGCAGTGGGGGCGGCAACCACC  
CCCACGGCCCTGATGCCTCTGCCGAGGGCCTCAACCCCTACGGCCTCGTTGCCCCCGTTTCCAGCGAAAGTTCA  
AGGCCAAGCAGCTCACCCACGGATCCTGGAAGCCCACCAGAATGTGGCCAGTTGTCGCTGGCAGAGGCCCAGC  
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA  
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA  
CCTGGCGTTTCAGCAACATGCGCCAGTGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC  
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC  
TGTCGACGCGGGAGCGGGCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCCTGCAGCTCACCGGGGGCCATGAGG  
CCTTCTTGAGGGCTGTCTGATTGCCCTGCCCTGCTCACCACCTGTACAGCCACTCCCAAGCCCACACCCACAGG  
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTACCTGCTGTCACTGACTTTGTGCAGG  
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATCACCCAGGCCAAGGATGGGGGTGGGGGTCCCTGAGCTCATGT  
GGTGCCCCCTTTCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA  
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTTCTTGTTACTTTTTAAATTTCTTTT  
TTATAAATTAATATTTTATTGTTGG



115/5332  
**FIGURE 103**

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCGTCCTGACGCCGCTGCTGCTGCGGGGCT  
TGACAGGCTCGGCCCCGGCGGCTCCCAAGTGCCGCGCGCCAAGATCCATTCGTTGCCGCCGGAGGGGAAGCTTGGA  
TCATGGAATTGGCCGTTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC  
TGGAGACCTACAGGAGGCCAGAGTGAAGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC  
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCATTCAATTCCAGTCACCTCTTCTGC  
AATCATGACCTCTTGATGTCTCCATGGTGACCTCCTTGGGGGTCACTGACCCTGCTTGGTGGGGTCCCCCTTGTA  
ACAATAAAATCTATTTAACTTT

116/5332  
**FIGURE 104**

GGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCAGCCACCGTGGATTGGGCCTTCGACCTGA  
CCAAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGGGGCTGGAAAGGACCGAGAGAAACGGGAGGAAATGA  
CAGATGACCGAGCCTGGTACCTCATCGCGTGGGAAAACAGCTCCGCTCCCTGTTGCCTTTTCTCACTTCCGGTTTG  
ACGTGGAGTGTGGGGATGAAGTCCTGTACTGCTATGAAGTGCAGTTGGAAAGCAAGGTGCGGCGGAAAGGCCTGG  
GGAAGTTCCCTCATACAGATCCTGCAGCTCATGGCCAACAGCACACAGATGAAGAAGGTTATGTTAACAGTATTTA  
AACACAATCATGGTGCCTACCAGTTCTTCAGAGAAGCGTTGCAGATTGAAATTGATGACTCTTCCCCCAGCATG  
TCCGGTTGCTGTGGGGAGGATTGCTCCTATGAGATCCTGAGCCGGAGGACCAAGTTTGGGGACAGCCATCACTCC  
CACGCGGGTGGGCACTGTGGTGGCTGCTGCCACTGAACTCTCAGAGCCACTTTCAAGTCACAATGCTCTCTCCTA  
AGGCCTTTTCTCTTTCTGGTCTCACTGTTTACCAGGCTGCTCCTCAGAGCTGTGGCCTCCCCAGCCCTGCACGTGC  
CAGGCTGCGCCCTGAGAGCACAGAACCTTGGGGAGAAGTGGTATCAGCTGCTCCTCCTCTCCTAGGAGACCAGAG  
TGCTAGAAGGGAATGAAAGGGAGAGGGAAGAGTAGGTGGGGCCGGGCAGTGAAGCTCATCTCCACAGTGGCTGC  
CTCCTCATTTGGCTCCTGGGGCCTGCAGTGGAGGTTCTCGCACCTCTGCAGCCCTTAGATTCTGGCAACCTCCC  
CTCCCCTGACACATACACACTTGGACAAATGGAATGTTTATGTCCACCTTTATGAAAGTTCTGGAGTCTTGGGTC  
TGGGGTTTGTGCTGGTCCCCAAGAGGAACACACTGGGTGTAAGATCTGGGTGTAGAGGGCGGCTTCAGAGAGACTC  
ACGCTTGCGCAGTTGGAATTGCTGTTAACGGAGACTGGGAAGATCTTTTGTGCCAAGATGCAGGGAAATGAAGAA  
AGCTCTTTCCAGCTGTTTTTATGGATTATGGAGTGGGCTCATGTTGGGACCAGCTGACTCTGGGAGGAAGACTG  
CCTCTCCATCGCTGTCTAGAGAGCCTGAAAGGACCAACAATGAGGTGTTCTTGGGACCCGCCATGGGGATGATTGC  
TTCTCTAGGCTCCTGGATGTTGCTGCATTCTAAGCTTAACCTCCTGGTCTCATGGCAGTGACTTGAGCTTTTGAT  
TCATAGAAGAAAGCCAGAGGTTCTGCTTGTTCTTGTCTGCCAGCCCTCGTTCGTTCTTTCTCCTCTGCCTCTCACC  
TCTACCCCAAATACCTCTGTTCTTAGTCTCAAGGGGAGAATAACATCAGGGAGCCCCCTCATCTTCCCCAGAAGGA  
CTTCTCGTTCCTCATGTAGTTAACTCCATTGATTTTCTATCTTGGTGTCTGATAGCTCTCTAAGGGTAGGGCACA  
CCTCCCCACAGCCACCTTCCCTCTTCAGAGAGCCCCCAGCCAGCAGCAGGCCCCCTCTGCCTGCACTCCTCAGGCT  
TGCCCCCTCGCTGCCTCAGTGAGGCACTAGTGCCACTGCCGTGGCCCAGCCGGGCCATAGCTCAGGCTGCAGCAGA  
AATGCCTCTCAGTGGCCAACAGTTGCTTTTCTCTCTGGTGTACCCTGTGGCAACAGGCTGGAGCAGGGGAAGGA  
GAAAGCCTTCTCTTCTCTCATAGGATAGAAAGGCAGGCTCAGAACTAATGCTCATCTGATCTCTAGGCCTTGT  
TCCTCTTCCAGGGAAGAAAAGCCAAATCCTTATCAAGGAAAAGCACCTAACAGCTCCCTTTGGATATCCCTGAG  
CTCTGCTGTGGGGAGTATCATAAAGGTTCTAGCCTTCGTGAAGTTGTTCTCGTGGAGGTCTGTTGGTCCCTCTGA  
CCTCAGCATCTGCTCACATCCCAACCTCTGCCCACTCTGGCAGTCTCTCCTGGCAGATCTCCCCAGAGTGGTCC  
TTGCTTCTCACCTGGATTCTGCTTGTGTCAGGAGCCTGTGTACACAGGGCCTCCCTCACCAGCCTGGCCCCCTCT  
GCTGAGCACTTTGCGCTGCTCTTGATGGGCAGCAGTGGGACTGGGAACCTTAGAGAGGGCCTTGCAGCTTTAC  
ACTGGAATAAGTCTGCCTCTGCCTCTGCCTCACCTGCTGGCTCCTGGTGGGTTTCATCCCAGGCAGAGTTGACA  
TTGCTGGAGGGGTTTGGTGGACTCCTAAGAATCATGAAACCACAGGAGCATGTTTAGGAAGAGATTGTCTCTGG  
TCCCTGTCTCTGAAAGGACACAGATGCTAAATATTTATTGCTTAGATCATGGATTCTGATACCTCTCACTCAA  
GGGGACCAAAGGGACCCCCCGTGTTCATCCCTTGTAAGGTGAGTTAGTCTACGTTGTCTCTTTCCAGTCACT  
GGATACGTGGCACCAACTGGTCAATGGGTGCTTGGTGCCATACCCTGCTCACCTAGTCTCTGCAGGCCATGTCC  
TGAAGGGTTCTCAGGAGGTGCGGACTAGGGTGGGAGAGGCACCTATCTGAGACCTGCAATCACTCTTGTGGTCT  
TGAGCCCATTCAATTTCCAAAACATCCATCTTTCTCCACTTTCCCCAGGTCTTGGTTTTGAGAAACAGCAGGCATG  
GCTGAGTGCGGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGGTCACTGAGGTCAGGA  
GTTCAAGACCAGCCTGGTCAACATGGCAAAAAGCCCATCTCTACTAAAAAATACAAAATCACCCAGGCGTGGTTG  
TGGCCTGTGATCCAGCTACTCGGGAGGCTGAGGCAGGAGACTCGCTTGAACCCAGCAGGTGGAGGTTGTGGTGA  
GCTGAGATCACGCCATTGCACTCCAGCCTAGGCGACCGAGTGAGACTCCATCTC

117/5332  
**FIGURE 105**

AGGTGTTAACTGTCTGGCCTATGATGAAGCCATCATGCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCA  
GAACCCTCTGGTGTGAGAGCGGCTGGAGCTCTCGGTCTATACAAGGAGTATGCTGAAGATGACAACATCTATCA  
ACAGAAGATCAAGGACCTCCACAAAAAGTACTCGTACATCCGCAAGACCAGGCCTGACGGCAACTGTTTCTATCG  
GGCTTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGTTGCAGCGGTTCAAGGCTGTGTCTGC  
CAAGAGCAAGGAAGACCTGGTGTCCAGGGCTTCACTGAATTCACAATTGAGGATTTCCACAACACGTTTCATGGA  
CCTGATTGAGCAGGTGGAGAAGCAGACCTCTGTGCGCCGACCTGCTGGCCTCCTTCAATGACCAGAGCACCTCCGA  
CTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCGAGAGCAAGTTCTTTCGAGCACTTCAT  
CGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCATGTGCAAGGAGAGCGACCACATCCA  
CATCATTGCGCTGGCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACATGGACCGCGGCGAGGGCGGCACCAC  
CAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCTACCGGCCTGGACACTACGATATCCT  
CTACAAATAGGGCTGGCTCCAGCCCGCTGCTGCCCTGCTGCCCCCTCTGCCAGGCGCTAGACATGTACAGAGGT  
TTTTCTGTGGTTGTAAATGGTCCTATTTACCCCCCTTCTTCTGTACATGACCCCCCCCCATGTTTATTAAAG  
GGGGTGCTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCGCCTGGCTGCTCTGTCTGCTGCCCCCTC  
CCCCAGGTGGGTCCCCCTGCTTTTACCTATCTACTCCTGAGCTTCCCCAACAGGAGCAGGTTTGAGGGGCCAG  
GCCTCTTGGAGGCCCCCTCTGCTTCGTTGGGTTCTGCTTCCCTTCCCTTCTTAGCTGGCTCAGGGGCTTCTATGGG  
ATCCTGGAAGTTCCTTAGGGACTTGCCAGGGTCCCAGGGGCCACCCACACTTCATCTGCTCCCTCATAGGCCCCA  
CCTCCACGTCCCGGCTGGGCCCCAGACCCAGCTTCCCTGCCCTCCACGGGAGTCTGCATGGTTGGGAGTCTTG  
GTGGAGGGGCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGCTGGGCCTCCCACAGGGTGCCCGGGC  
AGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGGTCTACAGTCCTCAGGTCTAGGCAGGGCTGCCG  
GTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCTGCTTGCACCCCTCTGCTTGGGCCACGGTGT  
CTCTGCATTGCCCTTTTTGCCTTACCTCTTTTCTTCCCCGCCCCCTGCACATTGGGGGTCTCAGCCCCCAG  
GCTGTGAGCTCCTTGGGGGAGGCCCTCAATAAATGTGAACTGCTGCTGCCGCC

118/5332  
**FIGURE 106**

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAGATGGCTTCGCCACA  
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA  
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGTCTTCTCAGTCCTGAG  
CAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT  
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA  
GTACAGTATTGTGAGCAGGAAGTGTGAGCACTTTGTCACCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT  
GGAAAAGGCCAAGGTTGAAGTTGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTTCGAT  
TAGGAGATACCAAAAAAAGCGACAGCCTGAAGCAGCCACAAAATCCTGTGTTAGAAGCAGCTGTGGGGGTCCCA  
GTGGAGATGAGCCTCCCCCATGCCTCCAGCAGCCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC  
CTCTGTTTCCCTCTCTCGCTGGCAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG  
CCCCTTC

119/5332  
**FIGURE 107**

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCC  
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG  
GGTGTGCTGTTTGGAGTTCCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG  
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAG  
TGGGGCCGAGCCCACAAGGCGGAAGGCAAGGTTCCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA  
GACTTATTACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG  
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC  
TCACAGCTCTGAGGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCCAGCCCTGTGCTGGGG  
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

120/5332  
**FIGURE 108**

GGAGCCGCCATGTAACCGGCGCCGCCCGGAGCCCGAGCCGCGCGGGCCCCAGCGACCCGCCCCGCCATGGGGGACG  
AGGACGACGATGAGAGCTGCGCCGTGGAGCTGCGGATCACAGAAGCCAACCTGACCGGGCAGGAGAGAAGGTGA  
GCGTGGAGAACTTCGAGCTGCTCAAGGTGCTGGGCACGGGAGCCTACGGCAAGGTGTTCTTGGTGCGGAAGGCGG  
GCGGGCAGCAGCGGGGAAGCTGTACGCCATGAAGGTGCTGCGCAAGGCGGCGCTGGTGACGCGGCCAAGACGC  
AAGAGCACACGCGCACCGAGCGCTCGGTGCTGGAGCTGGTGCGCCAGGCGCCCTTCTTGGTACGCTGCACCTACG  
CTTTCCAGACGGATGCCAAGCTGCACCTCATCTGGACTATGTGAGCGGCGGGGAGATGTTACCCACCTCTACC  
AGCGCCAGTACTTCAAGGAGGCTGAGGTGCGCGTGTATGGGGGTGAGATCGTGCTGGCCCTGGAACACCTGCACA  
AGCTCGGCATCATTTACCGAGACCTGAACTGGAGAATGTGCTGCTGGACTCCGAGGGCCACATTGTCTCACGG  
ACTTCGGGCTGAGCAAGGAGTTCCTGACGGAGGAGAAAGAGCGGACCTTCTCTTCTGTGGCACCATCGAGTACA  
TGGCCCCCGAAATCATCCGTAGCAAGACGGGGCATGGCAAGGCTGTGGACTGGTGGAGCCTGGGCATCTTGCTCT  
TCGAGCTGCTGACGGGGGCTCGCCCTTACCCCTGGAGGGCGAGAGGAACACGCAGGCTGAGGTGTCTCGACGGA  
TCCTGAAGTGCTCCCTCCCTTCCCCCTCGGATCGGGCCCGTGGCGCAGGACCTGCTGCAGCGGCTGCTTTGTA  
AGGATCCTAAGAAGCGATTGGGCGCGGGGCCCCAGGGGCGACAAGAAGTCCGGAACCATCCCTTCTTCCAGGGCC  
TCGATTGGGTGGCTCTGGCTGCCAGGAAGATTCCAGCCCCATTCCGGCCCCAAATCCGCTCAGAGCTGGATGTGG  
GCAACTTTGCGGAGGAATTAATCGGCTGGAGCCTGTCTACTACCCCTGGCAGCCCCCACCTGGGGACCCCC  
GAATCTTTAGGGATACTCTTTGTGGCACCTCCATTCTCTTTGACCACAACAACGCGGTGATGACCGATGGGC  
TGGAAGCGCCTGGTGCTGGAGACCGGCCAGGTGCGGCAGCGGTGGCCAGGAGCGCTATGATGCAGGACTCGCCCT  
TCTTCCAGCAGTACGAGCTGGACCTGCGGGAGCCTGCGCTGGGCCAGGGCAGCTTTTCTGTGTGTCGCCGCTGCC  
GCCAGCGCCAGAGCGGCCAGGAGTTTCGAGTCAAGATCCTCAGTCGCAGGCTGGAGGCGAACACGCAGCGCGAAG  
TGGCTGCCCTGCGCCTGTGCCAGTCAACCCCAACGTGGTGAATCTGCACGAGGTGCATCACGACCAGCTGCACA  
CGTACCTGGTCTTGGAGCTGCTGCGGGGCGGGGAGCTGCTGGAGCACATCCGCAAGAAGCGGCACCTCAGCGAGT  
CGGAAGCAAGCCAGATCCTGCGCAGCCTCGTGTGCGCCGTGAGCTTCATGCACGAGGAGGCGGGCGTGGTGACC  
GCGACCTCAAGCCGGAGAACATCCTGTACGCCGACGACACGCCCGGGGCCCCGGTGAAAATCATCGACTTCGGGT  
TCGCGCGGTTGCGGCCGAGAGTCCCGGGGTGCCATGCAGACGCCCTGCTTACGCTGCAGTACGCTGCCCCCG  
AGCTGCTGGCGCAGCAGGGCTACGACGAGTCTGCGACCTCTGGAGCCTGGGCGTCATTCTGTACATGATGCTGT  
CGGGGAGGTCCCTTCCAGGGGGCTCTGGCCAGGGCGGGCAGAGCCAGGCGGCCGAGATCATGTGAAAATCC  
GCGAGGGGCGCTTCTCCCTTGACGGGGAGGCTGGCAGGGTGTATCCGAGGAAGCCAAGGAGCTGGTCCGAGGGC  
TCCTGACCGTGGACCCCGCCAAGCGGCTGAAGCTCGAGGGACTGCGGGGCGAGCTCGTGGCTGCAGGACGGCAGCG  
CGCGCTCCTCGCCCCCGCTCCGGACGCCCGACGTGCTCGAGTCTCTGGGCGCGAGTGCCTCGGGTCTCAACG  
CCACCTTCATGGCATTCAACCGGGGCAAGCGGGAGGGCTTCTTCTGAAGAGCGTGGAGAATGCACCCCTGGCCA  
AGCGGCGGAAGCAGAAGCTGCGGAGCGCCACCGCTCCCGCGGGGCTCCCTGCACCGCCAACCCGGGGCGAG  
CCCCCGTGCCTCCAAAGGGGCCCCCGCCGAGCCAACGGCCCCCTGCCCCCTCTCTAATCCCCACCACTGTGAC  
CCCTTCCCTCATAGGGGCTGTGACCTGGGAGCCCGGCTCACTCCCGAGGCTCTGCTGCGGCTGACCTGATC  
CCCAAGGGACTGTCTTTCTCTCTTACCCACCCACTCCAGACAGAGCAGAAGTATTTTTATAAGCAGAGAA  
TTTTTTATGTCTTACCAGATAGAGTTGCAGGGAAGGGGGGCTGCTGGGGAGTGGGGTTTGGGGGGCCCTCTCC  
CAGGACACTGCCTCTTCTGGGCAGAAAGGCCCTCCAGGGGAGTGTCTCAACAGGAAAAGAGCCCCCTCCCCACTT  
CTAAGCACTGAGTTAGGAGTGCTAACTCCTAACTGGGACCCCTACCCTGTTCTCCCTGAGGCCCGTTCTCTG  
GGAGGGGACCCCTCAACTGTCACTTTATGGACTGTCTGTGCAATTACGTCCACCAAAGACCCGTGTTGGGGGTA  
CTGAAGGAGAGGCCCTGGGGGACCTCTGAAGCATTTCTGCCTCACTTTATGTATCTGCTTCTCCCTGTTGGG  
GCTAAGGAAGGAGATAGGTGGCTCCTAAAAGAGGAGGCCATCTTCTACCCACCCCTTCTCTTTGGCACAGCTA  
CTCTGGCTGGGGGTGGGGCCTTGGGGTCTGGGCTGGGCATCCATGGTCACTGCCTCAGCCCAGCCAGGCTGTG  
CCTTTGACTTTAAAATAAAAGTCCACCCAGTGCTGTGTGTGGC

121/5332  
**FIGURE 109A**

AAGGGAGCCCCGCTCAGCGCGGGGAGCGCCCCGGCCCCCTCCCGCCCCATGCGCCCGCGGCTCTGAAGCCTGAGCG  
GGGGCCGGGGGCGGGGCGGGGCCGGGGCCGCGTAGGCATGGCGTCCGGGAGCCGGTGGCGGGCCGACACCGCCGC  
CGCTGCTGTTGCTGCTGCTGCTGCTGGCGCTGGCGGCGCGCGCGGACGGCCTGGAGTTCGGCGGGCGGCCCGGGCAGT  
GGGCTCGCTACGCGCGCTGGGCGGGCGCGGCGAGCAGCGCGAGCTCAGCTTCAGCCTGCGCACCAACGCCACGC  
GCGCGCTGCTGCTCTACCTGGACGACGGCGGGCGACTGCGACTTCTGGAGCTGCTGCTGGTGGACGGCCGCTGCG  
GGCTGCGCTTCACGCTTTCGTGCGCCGAGCCGGCCACGCTGCAGCTGGACACGCCGGTGGCCGACGACCGCTGGC  
ACATGGTGTGCTGACCCGCGACGCGCGCCGACGGCGCTGGCGGTGGACGGCGAGGCCCGCGCCGCGGAGGTGC  
GCTCCAAGCGGCGGAGATGCAGGTGGCCAGCGACCTGTTTCGTGGGCGGCATCCCGCCCGACGTGCGCCTCTCGG  
CGCTTACGCTGAGCACCGTCAAGTACGAGCCGCCCTTCCGCGGCCTCTTGCCAACTGAAGCTGGGCGAGCGGC  
CCCCCGCGCTGCTGGGCGAGCCAGGGCTGCGCGGCGCCACCGCCGACCCGCTGTGCGCGCCCGCGCGCAACCCCT  
GCGCCAACGGCGGCCTCTGCACCGTGTGGCCCCCGGCGAGGTGGGCTGCGACTGCAGCCACAGGGCTTCGGCG  
GCAAGTTCTGCAGCGAAGAGGAGCACCCCATGGAAGGTCCGGCTCACCTGACGTAAACAGCGAAGTAGGGTCTT  
TACTGTTCTCCGAGGGGGGGGCGGGGAGAGGAGCGCGCATGTGCACCAAGCAACAAAAGGCAAGGAGGAGT  
TTGTGGCGACCTTCAAAGGCAATGAGTTCTTCTGCTACGACCTGTACACAACCCCATCCAGAGCAGCACTGATG  
AGATCACACTGGCCTTCCGCACCCGTGCAACGCAACGGCCTGATGCTGCATACAGGCAAGTCGGCCGACTACGTCA  
ACCTGTCCCTCAAGTCTGGGGCTGTCTGGCTGGTCAACCTAGGCTCAGGTGCCTTCGAGGGCCCTTGTGGAAC  
CCGTCAATGGCAAGTTCAACGACAACGCCTGGCACGACGTCCGGGTACCCGAAACCTGCGCCAGCACGCAGGGA  
TTGGACACGCTATGGTAAACAACTGCATTATCTGGTGACCATCTCGGTGGACGGGATCCTGACCACCACAGGCT  
ACACGCAGGAGGATTACACCATGCTGGGCTCTGATGACTTCTTCTACATTGGGGGCGAGCCCCAACACAGCTGACC  
TGCCGGGCTCGCCCGTCAGCAACAACCTCATGGGCTGCCTCAAGGACGTGGTCTATAAGAACAAATGACTTCAAA  
TGGAATATCCCGCCTGGCAAAGGAAGGGGACCCCAAGATGAAGCTGCAGGGGGGACTTGTCAATCCGCTGTGAGG  
ATGTGGCTGCCCTGGACCCTGTGACCTTTGAGAGTCCCGAGGCCTTTGTGGCGCTGCCCCGCTGGAGCGCTAAGC  
GCACTGGCTCCATCTCCCTAGACTTCCGCACCACCGAGCCCAATGGGCTGCTGCTCTTCAGCCAGGGCCGGCGGG  
CTGGGGGTGGAGCTGGCAGCCACAGCTCTGCTCAGCGGGCCGACTACTTTGCCATGGAGCTATTGGACGGCCACC  
TCTATCTTCTGCTGGACATGGGATCTGGGGGCATCAAGCTGCGGGCATCCAGCCGCAAGGTCAATGATGGCGAGT  
GGTGTACAGTGGACTTCCAGAGGGATGGGCGAAAAGGCTCCATCTCAGTGAATAGTCGCAGCACGCCGTTCTTGG  
CCACTGGAGACAGCGAGATTCTGGACCTGGAGAGTGAGCTGTACCTGGGCGGTCTCCCTGAGGGGGGCGGGTGG  
ACCTGCCCTGCCCCAGAGGTGTGGACAGCAGCACTCCGGGCGAGGTACGTGGGCTGTGTGCGGGACCTCTTCA  
TAGATGGGCGTAGCCGAGACCTCCGGGGCTGGCTGAGGCTCAGGGGGCTGTGGGCGTTGCCCCCTTTTGTCTCC  
GGGAGACGCTGAAGCAGTGTGCATCTGCCCCCTGTGCAATGGGGGCGTCTGTGAGAAGGCTGGAACCGCTTCA  
TCTGTGACTGCATCGGGACCGGCTTTCTTGGGCGGGTCTGTGAGAGAGAGGCCACGGTCTGAGCTACGATGGCT  
CCATGTACATGAAGATCATGCTGCCTAACGCCATGCACACGGAGGCAGAGGATGTGTCCCTGCGTTTCATGTCCC  
AGCGGGCTACGGACTCATGATGGCCACCACTTCCAGGGAGTCTGCCGACACCTACGCCTGGAGCTGGATGGGG  
GGCAGATGAAGCTCACTGTCAACCTCGACTGCCTGCGCGTCCGGTGCACCCAGTAAAGGCCCCGAAACGCTGT  
TTGCGGGGCACAAGCTCAATGACAATGAGTGGCACACGGTGAGGGTGGTCCGGCGTGGCAAGAGCCTGCAGCTGT  
CTGTGGACAACGTGACTGTGGAGGGACAGATGGCAGGAGCCCATATGCGGCTGGAGTTCCACAACATTGAGACGG  
GCATCATGACGGAGCGGCGGTTTATCTCCGTGGTGCCCTCCAACCTTCATCGGGCATCTGAGTGGGCTCGTGTTCA  
ATGGCCAGCCCTACATGGACAGTGCAAGGATGGTGACATCACCTACTGTGAGCTCAATGCTCGCTTTGGCCTGC  
GTGCCATCGTGGCCGATCCCGTACCTTCAAGAGTCGCAGCAGCTACCTGGCACTCGCCACGCTCCAAGCCTATG  
CTTCCATGCACCTCTTCTTCCAGTTCAAGACCACGGCCCCCTGATGGGCTTCTTCTGTTCAACTCGGGCAACGGCA  
ATGACTTCAATTGTCATCGAGCTGGTCAAGGGGTACATCCACTACGTGTTTGACCTGGGGAATGGCCCGTCCCTGA  
TGAAGGGGAACCTCAGACAAACAGTCAATGACAACAGTGGCACAACGTGGTGGTGTCCAGGGACCCAGGCAACG  
TGCACACGCTCAAGATTGACTCCCGCACTGTACGCAGCACTCCAATGGCGCCCGAAACCTCGATCTCAAAGGGG  
AGTTGTACATTGGCGGTCTGAGCAAGAATATGTTACGAACCTGCCAAGCTGGTGGCTCCCGGGATGGCTTTC  
AGGGCTGCCTGGCCTCAGTGGACCTCAACGGACGTCTCCAGACCTCATCGCCGACGCCCTGCACCGCATTTGGC  
AGGTGGAGAGGGGCTGTGATGGCCCCAGCACCACTGCACTGAAGAGTCTGTGCCAACCAGGGCGTCTGCTTGC  
AGCAGTGGGATGGCTTCACCTGCGACTGCACCATGACTTCTATGGAGGCCCTGTCTGCAATGATCCCGGGACCA  
CATACATCTTTGGGAAGGGGGGAGCGCTCATCACCTACAGTGGCCCCCAATGACAGGCCAGCACGAGGATGG

122/5332  
**FIGURE 109B**

ATCGCCTGGCCGTGGGCTTCAGCACCCACCAGCGGAGCGCTGTGCTGGTGCGGGTGGACAGCGCCTCCGGCCTTG  
GAGACTACCTGCAGCTGCACATCGACCAGGGCACCCTGGGGGTGATCTTTAACGTGGGCACGGACGACATTACCA  
TCGACGAGCCCAACGCCATAGTAAGCGACGGCAAATACCACGTGGTGCGCTTCACTCGAAGCGGCGGCAACGCCA  
CCCTGCAGGTGGACAGCTGGCCGGTCAACGAGCGGTACCCGGCAGGAACTTTGATAACGAGCGCCTGGCGATTG  
CTAGACAGAGAATCCCTACCGGCTTGGTCGAGTAGTAGATGAGTGGCTGCTCGACAAAGGCCGCCAGCTGACCA  
TCTTCAACAGCCAGGCTGCCATCAAGATCGGGGGCCGGGATCAGGGCCGCCCTTCCAGGGCCAGGTGTCCGGCC  
TCTACTACAATGGGCTCAAGGTGCTGGCGCTGGCCGCCGAGAGCGACCCCAATGTGCGGACTGAGGGTCACCTGC  
GCCTGGTGGGGGAGGGGCCGTCCGTGCTGCTCAGTGCAGGAGACCACGGCCACCACCCTGCTGGCTGACATGGCCA  
CCACCATCATGGAGACTACCACCACCATGGCCACTACCACCACGCGCCGGGGCCGCTCCCCACACTGAGGGACA  
GCACCACCCAGAACACAGATGACCTGCTGGTGGCCTCTGCTGAGTGTCCAAGCGATGATGAGGACCTGGAGGAGT  
GTGAGCCCAGTACTGGAGGAGAGTTAATATTGCCATTATCACGGAGGACTCCTTAGACCCCCCTCCCGTGGCCA  
CCCGATCCCCCTTCGTGCCCCCGCCCCCTACCTTCTACCCCTTCTCAGCGGAGTGGGCGCCACCCAAGACACGC  
TGCCCCCGCCCGCGCGCGCCCGCCCTCTGGGGGCCGTGCCAGGCCGAGCGGGACGACAGCGACTGCGAGG  
AGCCCATCGAGGCCTCGGGCTTCGCCTCCGGGGAGGTCTTTGACTCCAGCCTCCCCCCACGGACGACGAGGACT  
TTTACACCACCTTTCCCTGGTCACGGACCGCACCACCCTCCTGTACCCCGCAAACCCGCTCCCCGGCCCAACC  
TCAGGACAGATGGGGCCACGGGCGCCCTTGGGTGCTGTTTGCCCCCTCCGCCCCGGCCCCCAACCTGCCGGCGG  
GCAAAATGAACCACCGAGACCCGCTTCAGCCCTTGCTGGAGAACC CGCCCTTGGGGCCCGGGGCCCCACGTCTT  
TTGAGCCGCGGAGGCCCCCTCCCTGCGCCCCGGCGTGACCTCAGCCCCCGGCTTCCCCCATCTGCCACAGCCA  
ACCCACAGGGCCTGGGGAGCGGGGCCCGCCGGGCGCAGTGGAGGTGATCCGGGAGTCCAGCAGCACCACGGGCA  
TGGTGGTGGGCATTGTGGCGGCGGGCGGCTCTGCATCCTCATCCTCCTCTACGCCATGTATAAGTACCGCAATC  
GTGATGAGGGCTCCTACCAGGTGGACCAGAGCCGAACTACATCAGTAACTCGGCCCAGAGCAATGGGGCGGTGG  
TGAAAGAGAAGGCCCGGCTGCCCCCAAGACGCCCAGCAAGGCCAAGAAGAACAAAGACAAGGAGTATTATGTCT  
GAGCCCCCGGCACTGCGCCCCACTGCCAGCTGCCCTCCTGGGAGGGCCCCGGGAGGAGGGTGCCACCCTCTCCCT  
GCCAGGGGCCCTGGGGACCCTCTCCCTGGCTGCCCTCAGGCTTCTCTTACGAAGAGGAAACGCAAAAAAAGAAAGG  
AAAAACCCCGTGCTCGCCCCCTTCTCCTGCCGTCCACTGCGCGGCCTCGTCAGTCCCGGGGCTGACTGTCCCTC  
TCAGCTCTGCGCCTGCCAGGCAGGGCACGTGCTCACAGCCCTGGGTGATTTATTTTTTTAAGGGGTAGTTTTTA  
TTTTGGTGGGGTTGGGTGGGAAGGAAGGCTGGGGGTTTTGTAAAGTGTCCACTGCTCGTCCTGTTAATTTTCTC  
AATTTTCTTCTTCTTCTTCTGTCCTCCTGCCCTCCTTCTCTTCCCAAGCCCTCCAATCCCCATCCCAGGCTT  
GCTGTGTCTCACTGTCCCCACCCTCCTTCCCTACTTCTTTTTTTGTGTGTCTGGTTTCTCCCTTCTTTCTCCC  
TTTGGGTTTCCAGAGTCGGTGGGAGAAGGGCGGGAGGGTGGGCCGAGTGGCCAGTGGGTGGGTGGGTGGGGT  
GGGGCAAGTGCCCCAACTCCCTCACCAGGAGAGGCACCTGCTTGGTGCCGCCAGGGAAGGGGCTCAGGCCTGA  
CGGAAGGCCTGTTCTGTGTGTGCCGCCGGGCGACGTGCATTGATGGGAAGCTGCTGGAGGAGCAGGGGTGGGGG  
GTGGGAGGGAGGGGAAAGGCAAATGCAGATATATATTACAGACAAATACTCTAGATTCCACGAGCAGCAGCCTGT  
GGCACCCGCTGGGCGCGGGCAGCAGGGAAGAGGGAGCAAGGCATTGTCCACAGACTGCTGGGGTCACTTCTTTGC  
CCACGGGCTCCCTGCTCCCCAGTTTTTTTTTCTCTCTTTGTAAACAAATGTGTCTGAGTCTTGGAAAACACCCCA  
ACCCCGAAATGTGTGGGAAAAAGAAAACAAAACTTTCCAAATTCC



123/5332  
FIGURE 110

CGATTTTCATTCCCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCCTAGCCCATCCCCCAGACT  
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC  
CGGTCCCCGGGCCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA  
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG  
AGCCCCGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCCAGCCCCACCCGCGCCGCGGGCCATGGCAGGCACCCTGG  
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC  
GGGACCCGCGAGCTGGTGCATGTTTCTCATGATGCACCCCTGGTACATCCCCTCCTCTCAGCTGGCGGCCAAGC  
TGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT  
ACTGGATCTCCGCCTTCCAGCGGAGTTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC  
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGAAGC  
GGCAGGTGACTCAGCGGAACCCCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACTGGAGCCCA  
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT  
TCGTGACTCATGGCTGCACGTGTGGACAACCCCGTCCCTGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT  
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG  
CGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTTCGGGGGCTGAGCCACAGCTCCATCT  
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAAGTAGTGA  
CGGCGACAGGCAACTATGGCAACTACCGGCGTGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG  
TGCACTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG  
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCAAGTACAGG  
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT  
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAACCCAGCCCCACGAGTTGCACCCACCACCCCGGCCCCCGG  
TACTGGAGGAGTGGACCTCGGCTGCCAAACCCAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG  
TGGAGTCTGTGTTCCGGAACCTTTGACGTGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG  
GGAACCTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG  
TTTCCTATTTCCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT  
CCTTGCGCCCCGTGCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCCTCAAATGCCGAG  
CCTGTGGAGTGAAGTGCACACAAGCAGTGCAAGGATCGCCTGTGAGTTGAGTGTGCGCGCAGGGCCAGAGTGTGA  
GCCTGGAGGGGTCTGCACCTCACCTCACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTGCCCC  
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG  
ACATCCACTTGTAAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC  
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGGTGGGATATGAGGTGGCATGCAGCTGAGGGCAG  
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCCC  
GTGTAATTAACCTTC

124/5332  
**FIGURE 111**

ACTTACTGTCATTAAACCAGTATGATGATGGAGTGGGGAATGCCTCAGTTTCTCCCACCGCCGAGGGCCTATAGG  
ACTACAGTTCCCAGGGCCCCGTGCTGCAGGCTAGCGGCCTCCCGCCAATGCTGGCCAGTAACCTGAGCATCCCTC  
TCCAAAAGGTCACTTCAGGGCTCCTTGAGGGACAGCAACAGGGGGAGCCTAGAGCTGCTCAGCTTCGGTGGGGGT  
GGAGTGAGGGCTGTGGCCCTGCCTCACACAACCTCCCTCACACCACCCCTGCAATGCAGGGTCGTGGGCCCCCTTT  
CTCAAAGACATCCAGTGGCCTCTGCTAGTTGCACCTCTTCCGTGAGGGGACACTGACTTGGCTCCTGCACCACAG  
CCTGCAGGGGGTCTGGTTCCTTTTGCCACAACACATGGCCTCCCATCCTGGTTCAGCCACTGACAGACAGCTCC  
CCAATCCAGCACTCTGCCTGCTCCTTCTTGTATCCAACCCTCCAAAAGGCAGGGACAAGGGACAGAAGACCATGT  
GCAAGGCCTGGAGGAAGTGGGTGAGCACAGGCCTGTGAACAAGCCAGGCCAGTCTTGGCGGCCCAAGTGGAGCTC  
ACCTCTCCCTCCCTCTCCTCTCCTCCCTTGCCCTCAAAATAGCTCCCTGAGCTGCCAGGCCAAGACCCTCCCA  
TTGCAGGGGAGGCGGGGCGTGTGCCCAGAGCCAGGCTTTAAATCCCCTTGAGGCTGGGGAGCTCCACTCCTTGG  
CTGGAGGCAGTGCTGAGGCCGCGTCCCCTCTACCATCAGTCCAGTCCGGCCCCGCCCTCCTGCAGCCATGTCCTCG  
GCCCCTGTGACACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCCGGCGTGGAGAACGTGACTGAGCT  
GAAAAGAAGTTCAACCGGCACCTGCATTTCACTCTCGTAAAGGACCGCAATGTGGCCACCCACGAGACTACTA  
CTTTGCTCTGGCCCATACCGTGC GCGACCACCTCGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTATGAGAA  
GGACCCCAAGAGGATCTACTACCTGTCTTTAGAGTTCTATATGGGACGGACGCTACAGAACACCATGGTGAACCT  
GGCCTTAGAGAATGCCTGTGACGAGGCCACCTACCAGCTGGGCCTGGACATGGAGGAGCTGGAGGAAATTGAGGA  
GGATGCGGGGCTGGGCAACGGGGGCTGGGCCGGCTGGCAGCCTGCTTTCTTGACTCCATGGCAACACTGGGCCT  
GGCCGCCTATGGCTACGGGATTGCTATGAGTTTGGGATTTTAAACCAGAAGATCTCCGGGGGCTGGCAGATGGA  
GGAGGCCGATGACTGGCTTCGCTACGGCAACCCCTGGGAGAAGGCCCGGCCGAGTTCACGCTACCTGTGCACTT  
CTACGGCCATGTGGAGCACACCAGCCAGGGTGCCAAGTGGGTGGACACACAGGTGGTACTGGCCATGCCCTACGA  
TACGCCCGTGCCTGGCTATCGCAACAATGTTGTCAACACCATGCGCTCTGGTCTGCCAAGGCTCCCAATGACTT  
CAACCTCAAGGACTTCAATGTGCGTGGCTACATCCAGGCTGTGTTGGACCGAAACCTGGCGGAGAACATCTCTCG  
TGTCCTGTACCCCAATGATAATTTCTTCGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTATTTCTGTTGGTGGCTGC  
CACCTCCAGGACATCATCGCTCGCTTCAAGTCTTCAAGTTGCGCTGCGGTGATCCCGTGCGCACGAACCTTCGA  
TGCCTTCCAGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCCCTGGCCATCCCCGAGCTGATGAGGAT  
CCTGGTGGACCTGGAACGGATGGACTGGGACAAGGCGTGGGATGTGACAGTGAGGACCTGTGCCTACACCAACCA  
CACGGTGTGCCCCAGGGCCCTGGAGCGCTGGCCGGTGACCTCTTGAGAGCGCTGCTGCCGCGGCACCTCCAGAT  
CATCTACGAGATCAACCAGCGCTTCTCAACCGGTGGCGGCCGATTCCAGGGGACGTAGACCGGCTGCGGCG  
CATGTGCTGGTGGAGGAGGGCGCAGTGAAGCGCATCAACATGGCACACCTGTGCATCGCGGGGTGCGACGCCGT  
CAACGGCGTGGCGCGCATCCACTCCGAGATCCTCAAGAAGACCATCTTCAAAGACTTCTATGAGCTGGAGCCTCA  
TAAGTTCCAGAATAAGACCAACGGCATCACCCCTCGGCGCTGGCTGGTTCTGTGTAACCCCGGGCTGGCAGAGGT  
CATTGCTGAGCGCATCGGGGAGGACTTCATCTCTGACCTGGACCAGCTGCGCAAACCTGCTCTCCTTTGTGGATGA  
TGAAGCTTTTATTTCGGATGTGGCCAAAAGTGAAGCAGGAAAACAAGTTGAAGTTTGCTGCCTACCTAGAGAGGGA  
ATACAAAGTCCACATCAACCCCAACTCACTCTTCGACATCCAGGTGAAGCGGATTACGAATATAAACGACAGCT  
CCTCAACTGCCTCCATGTCATCACCTGTACAACCGCATCAAGAGGGAGCCCAATAAGTTTTTGTGCCTCGGAC  
TGTGATGATTGGAGGGAAGGCTGCACCTGGGTACCACATGGCCAAGATGATCATCAGACTCGTCACAGCCATCGG  
GGATGTGGTCAACCATGACCCGGCAGTGGGTGACCGCCTCCGTGTCTCTTCTGGAGAACTACCGAGTCTCACT  
GGCCGAGAAAGTGATCCAGCTGCAGACCTCTCTGAGCAGATCTCCACTGCGGGCACTGAAGCCTCAGGCACCGG  
CAACATGAAGTTTCACTGCTCAACGGGGCTCTGACCATTTGGCACCATGGACGGGGCCAATGTGGAGATGGCAGAAGA  
GGCGGGAGAGGAAAACCTTCTTCATCTTTGGCATGCGGGTGGAGGATGTGGATAAGCTTGACCAAAGAGGGTACAA  
TGCCAGGAGTACTACGATCGCATTCCTGAGCTTCGGCAGGTATTGAGCAGCTGAGCAGTGGCTTCTTCTCCCC  
CAAACAGCCCCGACCTGTTCAAGGACATTGTCAATATGCTCATGCACCATGACCGGTTTAAAGTCTTCGAGATTA  
TGAAGACTACATTAAATGCCAGGAGAAAGTCAGCGCCTTGTAACAAGAACCAAGAGAGTGGACGCGGATGGTGAT  
CCGGAACATAGCCACCTCTGGCAAGTTCTCCAGTGACCGCACCATTTGCCAGTATGCCCGGGAGATCTGGGGTGT  
GGAGCCTTCCCGCCAGCGCTGCCAGCCCCGGATGAGGCCATCTGAGCCTCCAGACCAGACCCCAAACCAGCCCT  
TGAGTCTGTCACTCTCTTGGGCCAGCCCCAGCACCTCATGCAGAGGTGGGGTACTGGAGTTAGATCTCT

125/5332  
**FIGURE 112**

AAATGAAGTGC GCGCTGCGACACCTCCCAGCCCACCGAACTCCGCCGCCATTTCCTCGCTTGGCCTAACGGTTTCG  
GCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTCGACCCTTCGCCTCGG  
CCCGGCCCAATCCAGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCGCTGCCCTCTCTCCTCCCTCTTTGTGC  
GTCTCGCGCCGCGCGCCCGGCCGCTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTTCGGGTCCCTCCC  
CCCGGGAGGCTTGCGAAGGAGAAGCCGCCGAGAGGAAAAGCAGGTGCCGGTGCTGTCCCCGGGGGCGCCATGG  
CGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA  
TGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT  
ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCCCTG  
AGGACAGGTCCCTTCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCGCGACCC  
GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAGCCACCTG  
CAGATTACAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCCACAAGATGAGTACCCAGAAATCAACT  
TTGTGGGGCTGCTCATCGGGCCCAGAGGGAACACCCCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGA  
TCCGGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC  
CACTTCATGCCCTGGTTACTGCCAATACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAACATCCTGA  
AGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG  
GGACCCTTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCCGCAGCATTACCAACACCA  
CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCCAAAGGCCTGGTGATCCTCAGT  
CAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAAGTGGGTGAAGCACCTGTCCCAG  
CATCTGTGGGCTCCACCTCTGGGCTGCCACCACACCCCTGGCCAGCGCACCTCGTCTGTCTGCCGCCAACA  
ACCCACCTCCACCGTCTCTCATGTCTACCACCCAGAGCCGCCACCCCTGGATGAATTCTGGCCCTTCAGAGAGTC  
GGCCCTACCACGGCATGCATGGAGGTGGTCTGGTGGGCGCGGAGGTGGCCCCACAGCTTCCACACCCATTAC  
CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAACCCCAATGGACCCCCACCCCTTGGATGCAGC  
CACCACCACCACCGATGAACCAGGGCCCCCACCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG  
GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA  
TGATGCCGCCGCGCGCCGCGCCTCCAGTGGGCAGCCCCACCCCTCCTCTGGTCTCTTCCCCCATGGCAAC  
AACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCCAGCAGCAGTATGGCTTCAGTACCCCTTGGCATGGCAGC  
AAAATACGACGACTACCACCACGAGCGCTGGCACAGGGTCCATCCCGCCATGGCAACAGCAGCAGGCGGCTGCCG  
CAGCTTCTCCAGGAGCCCTCAGATGCAAGGCAACCCCACTATGGTGCCCTGCCCGGCGGGTCCAGCCGCTC  
TGCCGCTGGGGCCCCCTCCCCCTCCGCCCGTAGCATCGAGTGTCTTCTTTGTCTTCTTCTCTCTCCTCACCCAAC  
TCCCTTTGCCTCTCCCCAAACCGGGCGGCCAGGATCCCTCCCCGCGGCGGCGATGGCCCGAGCCATGAGAGTGAG  
GACTTTCCGCGCCCATTTGGTGACCCTTCCAGGCAGACAGCCTCAGCAACGCCCTGGTGGACAGGATGGTTTCGGC  
AAAGCAGCCTGAGTTATTTTTGTGGACGGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTTTATTAATTTTT  
TTCTTTTTCCTTTGTTACTTCTTTATCTTTTCTTTCTTTCAGACTCCGTCCAAGGAGATGCTCTCCCCGGTCTTC  
TGCTGCAATTTAGATTCCCTTTCCCTTCTCTCCAGTTCTCCTTCCCTTACCAAGGAGAGGGGAGCAAAATGTTTTG  
GGCAAGGGCTTTGGCCATTATGTCAAGCTGGTTGTGGGTTTTTCAAGGTGCCATAGCCACCCCAATATGTTT  
GTTTAAAGCGTGGGGTTTTTTAATCTCTGCCACCCCTGTCAAGGGAGTCTTGTAAGTTGCCGAGGGTAGGTTCA  
TCTCCAGGTTTCGGGATTCCCATCCGTCTTGCGCATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC  
TCGCCTGCCAGCCTGGAGTTCTTCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTGGTCTCTCCT  
TCCTGGAAGGCTTCCTTTTATGTTTTGTTTTAATCCCAAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTTGAGC  
CCCTTGTTTACTTCTCTTCTTTTCTTCTCCGCTTCCCTCTCCATGAAGTGATTCTGTTGACAATAATGTATACT  
GCGCGTTCTCTTCACTGGTTTATCTGCAGAAATTTCTCTGGGCTTTTTTCGGTGTTAGATTCAACACTGCGCTAA  
AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

126/5332  
**FIGURE 113**

GCGCCGGGGCCATGGCGCTGCTGCGGGATGTGTCGCTGCAGGACCCGCGGGACCGCTTCGAGCTGCTGCAGCGCGT  
GGGGGCCGGGACCTATGGCGACGTCTACAAGGCCCGCGACACGGTCACGTCCGAACCTGGCCGCGTGAAGATAGT  
CAAGCTAGACCCAGGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTGAGTGCCGCCACCCCAA  
TGTGGTGGCCTACATTGGCAGCTACCTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGGCTC  
CCTGCAGGAGATTTACCATGCCACTGGGCCCCCTGGAGGAGCGGCAGATTGCCTACGTCTGCCGAGAGGCACTGAA  
GGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCCA  
GGGAGATGTCAAACCTGGCTGACTTTGGGGTGTGAGGCGAGCTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTTCAT  
TGGGACTCCCTACTGGATGGCTCCCGAGGTGGCTGCTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGT  
CTGGGCCCTGGGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATGAGGGC  
CCTGATGCTCATGTGCAAGAGCAGCTTCCAGCCGCCCAAACCTGAGAGATAAGACTCGCTGGACCCAGAATTTCCA  
CCACTTTCTCAAACCTGGCCCTGACCAAGAATCCTAAGAAGAGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTT  
CACGACTCAGCAGCTCCCTCGGGCCCTCCTCACACAGCTGCTGGACAAAGCCAGTGACCTCATCTGGGGACCCC  
CTCCCTGAGGACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCACTCCCGGGGGCAGCACGGCCC  
AGCCGAGAGGACCCCTCGGAGATCCAGTTTACCAGGTGAAATTTGGCGCCCCACGCAGGAAGGAACTGACCC  
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT  
CCAGGAGGCCCTGGAGGAAGGAGTCTGACTATTGGTTCAGCCTCAGAATTCAGGAGCTGGACTCCCCAGACGA  
TACCATGGGAACCATCAAGCGGGCCCCGTTTCTAGGGCCACTCCCCACTGACCTCCAGCAGAGGAGCCTCTGT  
CAGTCCCCCAGGAACCCCTGCCCCCACCTCCTTACAGGCCCAACAGCTCCCCACTGCTGCCCACGGCCTGGGCCAC  
CATGAAGCAGCGGGAGGATCCTGAGAGTTCATCCTGCCACGGGCTCCCCCAACTCCCAAGGTGCATATGGGCGC  
CTGCTTCTCCAAGGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTGTCACCTGGATTACCCCTGTTACTCG  
GGACCAGTTTCTGGTGGTAGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAACCTGCATGAGGATACGCT  
GGAGAAGCTGATTTACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAAATC  
CACGCACATCTGGGCCCCATGACCTCCCAGGCCTGTTTGGAGCAGCGGAGGCTACAGCAACAGGTTCCCTCTCCAT  
CCCCACCAACCGCCTACCCAGCGCATCATCCCCAGGCGCTTTGCTCTGTCCACCAAGATTCTTGACACCAAAGG  
CTGCTTGCAGTGTGCTGTGGTGCGGAACCCCTACACGGGTGCCACCTTCTGCTGGCCGCCCTGCCACCAGCCT  
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCAGCCC  
AGCTGGGATGCTGGAGCCGCTGGTGTGCTGGATGGGAAGGAGCTGCCGAGGTGTGTGTTGGGGCCGAGGGGCTGA  
GGGGCCCGCTGCCGCTCCTGTTCCATGTCTGCCCCTGGAGGCTGGCCTGACGCCCACATCCTCATCCCACC  
TGAGGGGATCCCAGGCTCGGCCCAGCAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG  
TGTGAGGATTGTCAACATGCAGGGCGAGCCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCATCGA  
GACTGTGGTGTGCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGCCTGGATACCAA  
TGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTTCCGAGTGCTTGGGGCCACAGAGACATCATCCTGGA  
GAGCATTTCCACTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTACGGGCCACCAGAGCACCTACTTAAGA  
GCAGCGGGCCTGTCCAGGGGCTCCCCGCCCCACCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGCCCAT  
CCTAGACCAGAGGAGCCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTGAGAAGTAATCCTGAGAAATGTTTCAGGC  
CTGGGGAGGGAGGGGAGCCCCCGACGCCTCTGCAATAACTGGACCAGGGGGAGCTGCTGTCACTCCCCCATCCCC  
GAGGCAGCCAGTCCCTAGTGCCCAAGGCAGGGACCCTGGGCCTGGGCCATCCATTCCATTTTGTTCACATTTT  
CTTTCTACTCTTTCTGCCAAGAGCCTGCCCTGCATTTGTCTGGGAAACACGGTATTTAAGAGAGAACTATATT  
GGTATTAAAGCTGGTTTGT

127/5332  
**FIGURE 114**

TATATTTATGTATATGCACATACACACAAAATTAGGCGGGAGTGGTGGCGCACGCCTGTGATCACAGCTACTCGG  
GAGGCTGAGGCACGAGAATCGCTTGAGCCCGTGAAGTCGAGGCTGCAGTGAGCCAGATCGAGCCACTGCATTCC  
AGCCTGGGCGAAAGAGAAAGACCGTGTCTCAAAACAAACAAACAAAGCTACTCTTAGCACGTGTTAGAGTATCT  
CGCGGGCGGAAGTGGGAAACGAGTGTGTCACACAGACAACCTGATCTTTTTCCTCATAACTTGCCGACCGACCCG  
TGACAGCAAACCGGCAGAAGCTCGGCGACCTCCCACCCCGAGTCTGCAGGTAGCCGCCGCCACCGCCCGCCGT  
CATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCGTGTTTGCTGC  
CGAGCTGGGCGGAGAGGAGCCGACCTGGTGTCTTTTCTTGCTGGGCTTCGTGGAGCATTTTCTGGCTGT  
CAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCCGACCCGCCTGGCGGCCCT  
CACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGCTTCACCGCCAGATCCGAGGCGC  
CGTCGACCTGTCCCTCTATCCTCGAGAAGGGGGTGTCTCCAGCCGTGAGCTGGTGAAGAAGGTCTCCGATGTCAT  
ATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGGCCACATCCAGTCCCTCTTCAGCTTCATCACAGGTTG  
GAGCCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGGGCCTGCCAGGCCCTGGGTCT  
CCAGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCCTGGGTAGTGTGTTGGGCCCAATGGGGAGCAGACAGCTGA  
GGTCACCTGGCACGGCAAGGGCAACGAGGACCGCAGGGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTG  
GCTGTACCTGAAAGGATCATACATGCGCTGTGACCGCAAGATGGAGGTGGCGTTTCATGGTGTGTGCCATCAACCC  
TTCCATTGACCTGCACACCGACTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCT  
GGGACATCTGGAAAGGTACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCCACCCCTGGCCG  
GCCAGACCCACTCACCTCTACCCACAAGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCC  
CTACATGTACCTGGCTGGCTACCACTGTGCGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCCTGGGCGGACACGGC  
CACTGTCTATCCAGGACTACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGA  
TGTATCCCCAACCTGCTGAAGGAGGCAGCCAGCTTGCTGGAGGCGGGCGAGGAGCGGCCGGGGGAGCAAAGCCA  
GGGCACCCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCCACCTGCTGCGATTCTACGACGGCAT  
CTGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTTGTGCAGTCCCTAGG  
CCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCGAGGCCGAGGAGCC  
GTGGGGCGAGGAAGCCCGGAAGGCCGCGCGGGGCCACGGCGGGAGTCCAAGCCAGAGGAGCCCCCGCCGCC  
CAAGAAGCCAGCACTGGACAAGGGCCTGGGCACCGGCCAGGGTGCAGTGTGAGGACCCCCCGGAAGCCTCCTGG  
GACTGTGCTGGCACAGCCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGTGCCAGCACCCGAGCATCACACC  
GCCGGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGATGAAGGGCATGAAGGAGCTGCTGGTGGCCACCAAGAT  
CAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTGCAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCC  
TAGTGACTACACTCTGTCTTTCTCAAGCGGCAGCGCAAAGGCCTCTGA~~ACT~~ACTGAGGACTTCGGACCGCTTGT  
GGGGACCCAGGCTCCGCCCTTAGTCCCCCACTCTGAGCCCATGTTCTGCCCCAGCCCCAAGGGGACAGGCCTC  
ACCTCTACCCAAACCTAGGTTCCCGGTCCCGAGTACAGTCTGTATCAAACCCACGATTTTCTCCAGCTCAGAAC  
CCAGGGCTCTGCCCCAGTCGTTAGAATATAGGTCTCTTCTCCAGAATCCCAGCCGGCCAATGGAAACCTCACGC  
TGGGTCTTAATTACAGTCTTTAAAGGCCAGCCCCAGAAACCAAGCTCCTCCTCGGAACCGCTCACCTAGAG  
CCAGACCAACGTTACTCAGGGCTCCTCCAGCTTGAGGAGCTGAGGTTTACCCCTTAACCCAAGGAGCACAGGT  
CCCACCTCCAGCCCGGGAGCCTAGGACCACTCAGCCCCCTAGGAGTATATTTCCGCACTTCAGAATTCATATCTT  
GCGAATCCAAGCTCCCTGCCCCAAATAACTTCAGTCTGCTCCAGAATTTGGAAATCCTAGTTTCTCTCCTTCG  
TATCCCAGTCTGGGACACAAAACCTCCGCCCCAGCCTATGAGCATCCTGAGCCCCGCCCTCTTCTGACGAAAC  
TGGCCCCGGATCAGAGCAGGACCTCCCTTCCGACCCCTCTGGGAACCTCCCAGAGGTCCAGCCCATCTCGGAGCAT  
CCCGGAGGAAATCTGCAGAGGGTTAGGAGTGGGTGACAAGAGCCTGATCTCTTCTGTTTTGTACATAGATTTAT  
TTTTAGTTCCAAGAAAGATGAATACATTTTGT

128/5332  
**FIGURE 115**

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCCAATTCCGCCCTGCCCCGCGCGGGC  
GGCGCTAGCCGCCACTGAGGGACCGACCTATAAAGGCCGCTCCGCGAGGGGTGCGCAGCATTCCGGCAGAGGGCG  
CTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGGTGCTCCCGATTCCCTGCCCGCGCGGCCCGCCTCGG  
CTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGCCCGCAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCAG  
CTGGGTGAGCAAGGATGCCCCGCCGAAGAAGGAGCCGGAGCTCTTCAGACGGTGGCTGAGGGGCTGCGGCAGCT  
GTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCGCGCTGGAGGACGC  
TGACTTCGACAACAAGCCTATGGTGCTCCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT  
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCGAGCCACCACGACTCCTTCATCGCCGTCATGCACGG  
CCCCACTGAGGGCGTGTTGCCGGGCAACGCGCTCGTGGTGGACCCGCGGCGCCCCCTCCGCAAGCTCAACGCGTT  
TGGCAACGCTTTCTCAACAGGTTTCATGTGTGCCAGCTGCCCAACCCCGTCTGGACAGCATCAGCATCATCGA  
CACCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGCAGCCGTCCTGGAGTGGTT  
CGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGACGCCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGT  
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGTGAACAAGGCAGACCAGATCGAGACGCAGCA  
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCGAGGTGGTTCAGGGTCTA  
CATCGGCTCCTTCTGGTCCCAACCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT  
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCT  
GGCCAAGGTTACAGCCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAA  
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTT  
CCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCT  
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGTGGTGCAGGAGGAGTCCCT  
GATGCCTTCCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGGCGGTTCCGGGCACGGCTACGGCGA  
GGGGGCCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCACCTACGACGAGATCTTCTA  
CACGCTGTCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAA  
CACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT  
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCCGCACCTGGTGCCGCC  
CTCCTCTGCCTGGGGCCATTGAGCCCCAGCCTCCAGGGCCCGGGCGCGTTTGCAGGCCAGTGGCCACTGTCCGGGC  
TGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCTGGGCTTCCCACCAGGCTTCCCGCGGGGGTC  
TCAGGGAGCTTCTCCCAGCGCTGCTCGGAGTCTGCAGGAAGTGGCCTTGTTCTCCTTAGCCCGTCACTCCATAC  
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGCCGGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTTACA  
CCTGTGGGAAGAGAAGTGAAGACTTTCTCCTTGCAATAAAAAGTCTGAAGTGTG

129/5332  
**FIGURE 116A**

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCCAGGCCGGCGGTCTCCGAGATGTCACGATGGCTGTGGC  
CATGGTCAAACCTGTGTGAAAGAGCGGGTCTGCCGCTACTTGCTGCACCCTACTTAGGTCACTTCTTCCAAGAGC  
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAAATCT  
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTCACCGCTGGAGCTGGTGGAAGGCTTCGTGGGCTCCATCGAGG  
TGGCCGTGCCCTGGGCTGCTCTGCTCACCGACCACTGCACAGTGCAGCTGTCCGGCCTCCAGCTCACCTTGCAGC  
CCCGCCGGGGTCCAGCGCCAGGGGCTGCCGACTCACAGAGCTGGGCCTCATGCATGACCACAAGCCTGCAGCTGG  
CCCAGGAGTGTCTGCGGGATGGGCTACCGGAGCCCTCTGAGCCACCACAGCCCCCTGGAGGGGCTGGAGATGTTTG  
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCCTGGACACTGTCTGTGAGGGTGGAGCACTCTC  
CGGGTGATGGGGAACGTGGTGTGGCCGTGAGGTCCGTGTGCAGAGACTGGAGTACTGTGATGAGGCAGTGCAGG  
ACCCAAGCCAGGCGCCGCGGTGGACGTGCATCAGCCGCTGCCCTTCCTGCACAAGCTGCTGCAGCTGGCAGGGG  
TCCGCTGCACTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCTTGAGATCGGCAGCTGCTCAG  
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCCTTCCTTGCCCCAAGTTGGAGGTGGCGGGACAGC  
TGGGCTCCCTGCACCTGCTCCTGACCCCCGAGGCAGCTCCAGCAACTTCAGGAACTGCTCAGCGCCGTGAGCCTTA  
CAGACCACGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCCGCTAGGTGCCGAAGACCTGTGGCTGATTGAGC  
AGGACCTGAACCAGCAGCTGCAGGCAGGGGCGAGTGGCTGAGCCCCCTCAGCCAGACCCCCCTTACCAACCCCCCTC  
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC  
TCTCCCTCTCCGATGTAGACCTGGCCTCCTCTGTGCGCAGCGACATGGCCTCCCGCCGGCTCTCTGCCAGGGCC  
ACCCAGCTGGCAAGATGGCCCCCAACCCCCCTCCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG  
GGGTGTGACCCTGACCTTGCTTCAGACGTCTGCCCATCTTCCGGACCACCTGACCTCGCCACGCACCTTTTTCA  
CCGAGTTTGATGCCACCAAGGATGGGCCCCCTTCGTTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG  
CCTGTCCCTGTAGCCATGTTCCGGCTAACGGGCACAGCCGTGCAGCTGTCTGGGAGCTGCGGACGGGCGAGTCGGG  
GCCGGCGGACAACCAGCATGGAAGTGCACTTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGGCCCCGGGGACCT  
CTGAGCCTGAGTACACGGAGATCCTGACCTTTCTTGGTACGCTGGGCTCCCAGGCCTCAGCTCGGCCCTGCGCCC  
ATCTGCGCCACACACAGATCCTGCGCCGTGTGCCTAAGAGCCGACCCCGGCGCTCAGTTGCCTGCCATTGCCACT  
CAGAACTGGCCCTGGACCTGGCCAACTTCCAGGCGGACGTGGAGCTGGGGGCCCCCTGGACCGGCTGGCCGCCCTAC  
TGCGCCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGCTGACAGAGCCCCCTGCCGGCGATGGAGCAGCAGA  
CGGTATTTCCGGCTCTCTGCACCCCCGGGCCACGCTGCGGCTGCGCTTCCCCATTGCCGACCTGCGGCCTGAGCCGG  
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCGGCTGGAGCTGAGTGAGCCCCAGTTCCGGTCAGAGC  
TTAGCAGTGGGCTGGTCCCCCAGTCCCCACCCACCTGGAACCTCACCTGCTCCGACCTACATGGTATCTATGAAG  
ATGGAGGGAAGCCACCTGTCCCTTGCTGCGTGTCTCAAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT  
TCCTGCCCCAGGTAGTGGTGACTGTGAACCCCCAGTCCAGCAGCACACAGTGGGAGGTGGCCCCGGAGAAGGGAG  
AGGAACTGGAGCTGTGAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCCTCTAAGAGGA  
CCATGTATGAGACAGAGGAGATGGTGATCCCTGGAGACCCTGAGGAGATGAGGACGTTCCAGAGCCGGACCCTGG  
CACTGTCCCGCTGCAGCCTGGAAGTGATCCTGCCAGTGTCCACATCTTTCTGCCAGCAAGGAGGTCTACGAGA  
GCATCTACAACAGGATCAACAACGACCTGCTCATGTGGGAGCCTGCAGATCTGCTTCCACCCCCGACCCCGCCG  
CCCAGCCCTCGGGCTTCCCCGGCCCCCTCAGGCTTCTGGCACGACAGCTTTAAGATGTGCAAGTCAGCCTTCAAGC  
TGGCCAACCTGCTTTGATCTCACCCCAGACTCGGACTCGGATGACGAGGATGCCCACTTCTTCTCAGTGGGGGCAT  
CAGGTGGCCACAGGCCGCTGCCCTGAGGCCCAAGTCTTCACTTGACAGACACCTTCTCTACACTGGTGACAG  
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGGTGGGAAGCGGCTGGAGGCTGTGCACGGGG  
AGCTGGTGCTGGACATGGAGCACGGTACCCTCTTACGCTCTCCAGTACTGTGGCCAGCCAGGACTTGGCTACT  
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCAGTCACTGG  
ACCTTCCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG  
GAGCCTCGGGCCGCAAGGGCCAGGGCCGGGGACCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCC  
ACAAGAATGTGAAGGAGTTCTTGGTGACACTGCGGTTGCACAAAGCCACCTTGCGCCACTACATGGCCCTGCCCCG  
AGCAGAGCTGGCATTCCCAGTTGTTGGAGTTCTTAGACGTGCTGGATGACCCTGTGCTGGGCTACCTGCCCCCGA  
CGGTCAACCATCCTGCACACACACCTGTTCTCTGCTCTGTGGACTATAGGCCACTCTACCTCCCAGTGGCGTG  
TCCTCATACCCGCGGAGACCTTCACTCTCTCCAGCAACATCATCATGGACACCTCCACCTTCTGCTCAGGTTCA  
TCCTCGATGACTCCGCTTGTACCTGTCCGACAAGTGTGAGGTGGAGACCCTGGACCTGCGGCGAGATTATGTCT

130/5332  
**FIGURE 116B**

GTGTTTTGGATGTTGACCTCTTGAACTTGTGATTAAACCTGGAAAGGGAGCACCGAGGGCAAACCTGAGCCAGC  
CACTATTTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA  
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCACCCCGGCCCCCAGCCCCACGGAGATCGCCG  
GCCAGAAGCTCTCGGAGAGTCTGCTCTCTGCCCTCGTGCCCCCAGTGGAGACGGCCCTCATCAACCAGCGTG  
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCAGCCTTCAGGTGGCCACCTCCCTC  
AGGCGTCGCCCATCTCCGTCTACCTATTCCCAGGTGAACGGAGTGGGGCCCCACCCTTCACCACCTGTCGGGG  
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGGAAGAGGAGGGCGATGGAGACACCC  
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGCCTGGGCATCCCGCCCCGAGATGGGGAGCCTGTGGTGA  
CACAGCTGCATCCCGCCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC  
GGGCACCTGCCATTTCAGTGCCAGCACTCGGGTGGTGTACGTGAGGTCTCCCTCGTCTGGCACCTCTATG  
GGGGCCGAGACTTTGGCCCCACCCCGGCCACAGGGCAAGAACTGGCCTCTCAGGTCCCAGGAGCTCCCTTTCCC  
GCTGCTCTGGCCCCAACCAGCCCCAGAACTCATGGCGCACGCAGGGGGGAGCGGGCGGCAGCACCATGTCCTCA  
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTGCGGGCC  
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAGGTGTTATCGTGCAGGAGCTGGAGGTCCGAGACCGGC  
TCGCCTCCTCCAGATCAACAAGTTCTGTACCTACACAGAGTGAGCGGATGCCGCGACGTGCCCCACTCTAACA  
TGCTCACCATCAAAGCGCTGCATGTGGCCCCACTACCAACCTGGGTGGGCCTGAGTGCTGTCTCCGCGTCTCGC  
TGATGCCCCGTGCGGCTCAATGTGGACCAGGATGCCCTCTTCTTCTCAAGGACTTCTTCACTAGTCTGGTGGCCG  
GCATCAACCCCGTGGTCCCAGGGGAGACCTCCGCTGAGGGTCGCCCCGAGACTCGAGCCCAGCCCAGCAGCCCCC  
TGGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTTCGAGGAGGGCCCCAGGAGGTGGACACAGCCCCCTCCCTC  
CTGACCAGCAGCCCATCTACTTCAGAGAGTTCCGCTTCACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA  
AGCACGTCACGATGGACCAGGTGGGCACCTTTTGCTGGCCTCCTCATCGGCCTGGCCCAACTCAACTGCTCCGAGC  
TGAAGCTAAAGCGGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT  
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCCGGCCTGCTGGGAGGCGTGGGGCCCCATGCACTCGGTTGTCCAGC  
TCTTCCAAGGGTTCCGGGACCTGCTGTGGCTGCCCCATTGAGCAGTACAGGAAGGATGGCCGCCTCATGCGGGGGC  
TGCAGCGAGGGGCTGCCTCCTTTGGCTCATCCACAGCCTCTGCCGCCCTGGAACTCAGCAACCGGTTGGTACAGG  
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCCGGCAGCCCCGTCTCCCGCTCCCTGCAGGATA  
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCTACGACA  
CAGTGCGAGAGGGCATCTTGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC  
TGACGGGCGCCGTGGGGGGCGTGATCCGCCAGCTGCCCCGACTGTGGTGAAGCCGCTCATCCTGGCCACGGAGG  
CCACGTCCAGCCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCACAAGGACCACGCCCTCAAGTGGC  
GCTCGGACAGTGCCCAAGACTGAGCCTGGGGTGGCCGGCACCCAGAGGGTGTGCCACCATGCTCCTGAGCCTC  
CCAAGAGCTGCAGCCACGGGGCCGGCCCGGCTGGCCCTTCAGGGGATGGCCACTGTGAAGGACGCCTTCCCAG  
CCTGCCCCGTGCCAATCTGCTGTGAGAGGGGGGCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCACTTTCC  
TCCGGGGAGAAAGGACACTGCCCCCTCCCCGACCTGGGCCACACTGCTGCCTTCTCCAGGACGGAGGCTTTTG  
GACCCTCGGACCCCATCCCACTCAGCCAAGTGTCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT  
TCGATGTATTATTTTAAAGCTCCGTGAGTGCGTGGGTCAGTGTCTGCATGAAGTGGAATAAACTGCCCCACCGCC



131/5332  
**FIGURE 117**

CCGTGCCCCCTCCCTACGGGCAGCCCCCGGGGGTTGGCGACCGAAGTCTAGGTTTTCGAGAAAGCCAGGGTGGGAA  
CCCTAACTGGACTCTTCGGGACCCCCAGGAAGGATCTGAGGCCTGAGCCATCCTCCTTTCTACCCTGTCTGCCCC  
CCAGGACTGGGCAGTTGCAGGAGGCCCTGGGGGGGGGCCAGGACTGTGGTTGTGCCCCCCCCCAAAGGCCGGA  
CAGGATGGGACCAAGTTAGTCTGTCCAGTCTCACCCAGCACCTCCCAGGCCAGAGAGAACCCCCGGGGCTCTGA  
AAGCTTGCCCTGCCGCCTGACCGCCATGGGAGACGAAGCTGCCCCCTGCAAGCACCCCCACTAGCCCCCTCCTCCCC  
CGGGCTGTGCGCTGTGCCCCACCCGACAAGGTGGACGGCTTCTCCCGCCGTTCCTCCGCAGAGCCCCGGCCCCG  
CCGCTCCACAGCTCCTCTCAGTTCGCTATCAGAGCAACCAGCAAGAGCTCACACCGCTGCCCCGTGCTCAAAGA  
TGTGCCGGCTTCGAGCTGCACGAGCTGCTGAGCCGGAAGCTGGCCCAGTGTGGGGTGATGTTTGACTTCTTGGA  
CTGTGTGGCCGACCTCAAGGGGAAGGAGGTGAAGCGGGCAGCCCTCAACGAGCTGGTGGAGTGTGTGGGGAGCAC  
CCGGGGTGTCTCATCGAGCCCGTCTACCCAGACATCATCCGCATGATCTCAGTGAATATCTTCCGGACTCTGCC  
GCCAGTGAGAACCCTGAATTTGACCCTGAAGAGGATGAGCCCAATCTTGAGCCTTCGTGGCCACACCTGCAGCT  
GGTATATGAGTTTTTCTGCGTTTCTTGGAGAGCCAGACTTCCAGCCCTCCGTGGCCAAGAGATATGTGGATCA  
AAAGTTTGTCTGATGCTCCTGGAGCTATTTGATAGTGAGGATCCCCGGGAGCGTGAGTACCTCAAGACCATCCT  
GCACCGGTCTATGGCAAGTTCTTGGGTCTCCGGGCCTACATCCGCAAACAGTGCAACCACATCTTCTCCGGTT  
CATCTATGAATTCGAGCACTTCAATGGTGTGGCTGAGCTGCTGGAGATCCTAGGAAGCATCATCAATGGCTTTGC  
GCTGCCCCCTGAAGACGGAGCACAAGCAGTTCTGGTTCGCGTCTGATCCCCCTGCACTCTGTCAAGTCGCTGTC  
TGTCTTCCATGCCAGCTGGCATACTGTGTGGTGCAGTTCTGGAGAAGGATGCCACTCTGACAGAGCACGTGAT  
CCGGGGGCTGCTCAAATACTGGCCAAAAACCTGCACCCAGAAGGAGGTGATGTTTCTGGGGGAGATGGAAGAGAT  
TCTTGATGTCATCGAGCCCTCCCGAGTTTGTGAAGATCCAGGAGCCCTTTTTAAGCAGGTGGCTCGCTGTGTTTC  
CAGCCCCCATTTCAGGTTGCAGAGCGGGCTCTGTATTTCTGGAACAATGAGTATATCCTAAGCCTCATTGAGGA  
CAACTGCCACACTGTGCTGCCTGCTGTGTTGGGACCCTCTACCAAGTCTCCAAGGAGCACTGGAACCAAACCAT  
CGTATCACTGATCTACAATGTGCTCAAGACCTTCATGGAGATGAATGGGAAGCTGTTTGATGAGCTCACAGCCTC  
CTACAAGCTGGAAAAGCAGCAGGAGCAGCAGAAGGCCCAGGAGCGTCAGGAGTTATGGCAAGGTCTGGAGGAGCT  
GCGGCTACGCCGGCTACAGGGGACCCAGGGGGCCAAGGAGGCCCCCTCCAGCGGCTTACACCCCAGGTGGCCGC  
CAGTGGGGGTGAGAGCTTAGACAGCACCTCAGAAGGGGAAAAGCTAAACCCAGAGCTGTCAGTCCCTCTATCCCTT  
CTCCTGTCCAGGGGCCAGAGAGAAACACACCTACCCCTGGCCTTGCCAGAGTGGCTTCTGAGGACTCCCTGCCC  
AGCCCAGCTTTCACTGGGGGGAGACGAGGAGAGGCAATGGTGGTCTTGGCAACAGAATGCTCAGCCCCCTCGTGGC  
AGGACTTGACAAGGGCAAGCTTGACCAGGAAGCTGCCATCAGGGATCTTCCCCTGCCCCGAAAGCTAGGCTCCA  
GCTGCAGGCGGGCTCCACCCCTCTGCTCCTGGCCTTGGGCAAGGGCACTCAGCGCCTCGCCTGCCCCTGCCTTGG  
CCAATGCGAGGTCTTCTTATCCCCACCATGGGGTCCATGGTCTATTTATTCTCGCCAGCTCACCCCTCTACAC  
AGACACTGTCCTGGGTGCACACTCCTCCCTTCCCTCGCTGTGTACTTCTTGTCCCCTTTTTATTATTGGGCAG  
GGGGAGGGGGAGGGCACAGGCAAGAAGAGATTACAGTGTCTGGGGTAAGGGGGGGTTACAGTAATCATGGTC  
TACTCCTCTTCCGTGGCTGGGGGTAGACTTAATAAAGAGAGAAATTC

132/5332  
**FIGURE 118**

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGCGGCGGGAGGAGGGCGGGGAGGAGCGCTCTTCCTGGTTGGGCCC  
TGCCCTGAGCTGCCACCGGGAAGCCAGCCTCAGGGACTGCAGCGACCCCCAAACACCCCTCCCCAGGATGTGCG  
AGGAGATCATCACGCCGGTGTACTGCACTGGGGTGTGAGCCCAAGTGCAGAAGCAGCGGGCCAGGGAGCTGGGCC  
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGGCAGGATTATGAGCAGCTGCGGGTGCATGCCTGCAGAGTG  
GGACCCTCTTCGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCCT  
CCAAGACCTATGGCATCAAGTGGAAGCGTCCCACGGAAGTGTGTCAAACCCCCAGTTTATTGTGGATGGAGCTA  
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG  
ACACCCTCCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAATGGCTATGCCGGCATCTTCCATTTCAGC  
TGTGGCAATTTGGGGAGTGGGTGGACGTGGTTCGTGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCG  
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCATGCCAAGGTAAATGGCAGCTACG  
AGGCCCTGTGAGGGGCGAGCACCTCAGAGGGCTTTGAGGACTTCACAGGCGGGGTACCGAGTGGTACGAGTTGC  
GCAAGGCTCCCACTGACCTCTACCAGATCATCCTCAAGGCGCTGGAGCGGGGCTCCTGCTGGGCTGCTCCATAGA  
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG  
GGCCAAGCAGGTGAAGTACCGAGGCCAGGTGGTGAGCCTGATCCGGATGCGGAACCCCTGGGGCGAGGTGGAGTG  
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGGAACAACGTGGACCCATATGAACGGGACAGCTCCGGGTCAA  
GATGGAGGACGGGGAGTTCTGGATGTCAATTCGAGACTTCATGCGGGAGTTACCCGCTGGAGATCTGCAACCT  
CACACCCGACGCCCTCAAGAGCCGGACCATCCGCAAATGGAACACCACACTCTACGAAGGCACCTGGCGGCGGGG  
GAGCACCGCGGGGGGCTGCCGAAACTACCCAGCCACCTTCTGGGTGAACCCTCAGTTCAAGATCCGGCTGGATGA  
GACGGATGACCCGGACGACTACGGGGACCGCGAGTCAGGCTGCAGCTTCGTGCTCGCCCTTATGCAGAAGCACCG  
TCGCCCGGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC  
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTGGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTTCATCA  
ACCTGCGAGAGGTGAGCACCCGCTTCGCGCTGCCACCCGGGAGTATGTGGTGGTGCCCTCCACCTTCGAGCCCA  
ACAAGGAGGGCGACTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGTGGGACTGTGGAGCTGGATGACCAGATCC  
AGGCCAATCTCCCCGATGAGCAAGTGCTCTCAGAAGAGGAGATTGACGAGAAGTTCAAGGCCCTCTTCAGGCAGC  
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACACAAAG  
ACCTGCGGACCAAGGGCTTCAGCCTAGAGTCGTGCCGAGCATGGTGAACCTCATGGATCGTGATGGCAATGGGA  
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC  
TGGACAAGTCGGGCGAGCATGAGTGCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA  
AGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCCGACCTGGCGGTGACTTTGACAATTCGTTTGCTGCC  
TGGTGCGGCTAGAGACCATGTTCCGATTTTCAAACCTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT  
TGTTTAAGTGGTTGCAGCTGACCATGTTTGCAAGGCGAGGACTCGGTCCCCCTTGCCGTGCTCCCCCTCCCTCC  
TCGCTGCCAAGCCTCGCCTCTACCACACCACACAGGCCACCCAGCTGCAAGTGCCCTCCTTGGAGCAGAGA  
GGCAGCCTCGTCCCTCTGTCCCCTCTCTCCAGCCACCATCGTTTATCTGCTCCGGGCAGAACTGTGTGGCCCC  
TGCCCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTGCG  
TTGTTCTGCTCGGGACAGCCCCGGGTTTCCCCAGCATCCTGATGTGTCCCTCTCCCCACTTCAGAGGCCACC  
CACTCAGCACCAACCGGCTGGCCTTGCTGCAGACTATAAACTATAACCACTAGCTCGACACAGTCTGCAGTCCA  
GGCGTGTGGAGCCGCTCCCGGCTCGGGGAGGCCCCGGGGCTGGGAACGCTGTGCTTCTGCGCCGAAGCCAA  
CGCCCCCTCTGTCTTCCCTGGCCCTGCTGCCGACCAGGAGCTGCCAGCCTGTGGGCGGTGGCCCTTCCCTCCT  
TCGCTCCTTTTTTATATTAGTGATTTTAAGGGGACTCTTCAGGGACTTGTGTACTGGTTATGGGGGTGCCAGAG  
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTTCATATAGAGGAACCCCAAATAATAAAGGCCCCACATCTGTC  
TGTG

133/5332  
**FIGURE 119**

GTTCCGGTTTCGAGGGGGTGGGGAGTGTGTTAACCAGGGGGCAGCCGAGTCGCGCGGATTGAGCGGGCTCGC  
GGCGCTGGGTTCCTGGTCTCCGGGCCAGGGCAATGTTCCGCACGGCAGTGATGATGGCGGCCAGCCTGGCGCTGA  
CCGGGGCTGTGGTGGCTCACGCCACTACTACCTCAAACACCAGTTCTACCCCACTGTGGTGACCTGACCAAGTCCA  
GCCCCAGCATGGCAGTCCTGTACATCCAGGCCCTTTGTCTTTGTCTTCTTCTGGGCAAGGTGATGGGCAAGGTGT  
TCTTTGGGCAACTGAGGGCAGCAGAGATGGAGCACCTTCTGGAACGTTCTGGTACGCCGTCACAGAGACTTGTC  
TGGCCTTCACCGTTTTTCGGGATGACTTCAGCCCCGCTTTGTTGCACTCTTCACTCTTCTTCTTCTTCTCAAAT  
GTTTCCACTGGCTGGCTGAGGACCGTGTGGACTTTATGGAACGCAGCCCCAACATCTCCTGGCTCTTCACTGCC  
GCATTGTCTCTCTTATGTTCTCTGCGCATCTGGACTTCTCTTCTGTCAGCCACGCCTATCACAGCATCCTGA  
CCCGTGGGGCCTCTGTGCAGCTGGTGTGTTGGCTTTGAGTATGCCATCCTGATGACGATGGTGCTCACCATCTTCA  
TCAAGTATGTGCTGCACTCCGTGGACCTCCAGAGTGAGAACCCTGGGACAACAAGGCTGTGTACATGCTCTACA  
CAGAGCTGTTTACAGGCTTCATCAAGGTTCTGCTGTACATGGCCTTCATGACCATCATGATCAAGGTGCACACCT  
TCCCACTCTTTGCCATCCGGCCCATGTACCTGGCCATGAGACAGTTCAAGAAAGCTGTGACAGATGCCATCATGT  
CTCGCCGAGCCATCCGCAACATGAACACCCTGTATCCAGATGCCACCCAGAGGAGCTCCAGGCAATGGACAATG  
TCTGCATCATCTGCCGAGAAGAGATGGTGACTGGTGCCAAGAGACTGCCCTGCAACCACATTTTCCATACCAGCT  
GCCTGCGCTCCTGGTTCCAGCGGCAGCAGACCTGCCCCACCTGCCGTATGGATGTCTTTCGTGCATCGCTGCCAG  
CGCAGTCACCACCACCCCGGAGCCTGCGGATCAGGGGCCACCCCTGCCCCCACCCTCTTGCCTC  
AGCCCCCAACTTCCCCAGGGCCTCCTGCCTCCTTTTCTCCAGGCATGTTCCCACTGTGGCCCCCATGGGCC  
CCTTTCACCTGTCCCGCTCCCCCAGCTCAGGAGAGGCTGTGGCTCCTCCATCCACCACTGCAGCCCTTCTC  
GGCCAGTGGAGCAGCTACAACCACAGCTGCTGGCACCAGTGCTACTGCTGCTTCTGCCACAGCATCTGGCCCAG  
GCTCTGGCTCTGCCCCAGAGGCTGGCCCTGCCCCTGTTTCCCTTCCCTCCTCCTGGATGGGTATGCCCTGC  
CTCCACCCTTTGCCTTCCCCCAATGCCTGTGCCCCCTGCGGGCTTTGCTGGGCTGACCCAGAGGAGCTACGAG  
CTCTGGAGGGCCATGAGCGGCAGCACCTGGAGGCCGGCTGCAGAGCCTGCGTAACATCCACACACTGCTGGACG  
CCGCCATGCTGCAGATCAACCAGTACCTCACCGTGTGGCCTCCTTGGGGCCCCCGGCTGCCACTTCAGTCA  
ACTCCACTGAGGAGACTGCCACTACAGTTGTGTGCTGCTGCCTCCTCCACCAGCATCCCTAGCTCAGAGGCCACGA  
CCCCAACCCAGGAGCCTCCCCACCAGCCCCGAAATGAAAGGCCTCCAGCTCCTGAGTCAGTGGGCACAGAGG  
AGATGCCTGAGGATGGAGAGCCCGATGCAGCAGAGCTCCGCCGGCGCCGCTGCAGAAGCTGGAGTCTCCTGTTG  
CCCCTGACTGCCCCAGCCAGCCCCAGCCTCTGCTCTTTTGGAGCAGCCTCGCTGGAACATGTCTGCCACC  
AAGTGCCAGTCCCTCTCTGTCTGCACCAGGGAGTAGTACCCCACTCTGAGAAAGAGGCGGCATCCCTAGGC  
CAAGTGAAAGAGGCTGGGGTTCCCATTTGACTCCAGTCCAGGCAGCCATGGGGATCTCGGGTCAGTTCCAGCC  
TTCTCTCCAACCTTTCAGCCCTGTGTTCTGCTGGGGCCATGAAGGCAGAAGGTTTAGCCTCTGAGAAGCCCTCT  
TCTTCCCCCACCCTTTCCAGGAGAAGGGGCTGCCCCCTCAAGCCCTACTTGTATGTGCGGAGTCACACTGCAGT  
GCCGAACAGTATTAGCTCCCGTTCCCAAGTGTGGACTCCAGAGGGGCTGGAGGCAAGCTATGAACTTGCTCGCTG  
GCCCCCCTAAGACTGGTACCCATTTCTTTTCTTACCCTGATCTCCCCAGAAGCCTCTTGTGGTGGTGGTGT  
GCCCCCTATGCCCTGTGGCATTCTGCGTCTTACTGGCAACCACACAACCTCAGGGAAAGGAATGCCTGGGAGTGG  
GGGTGCAGGCGGGCAGCANNNGNNGNCCGCCCTCCCCCAGGCCCTTTCTCTGCAGCTTCTCAAG  
TGAGACTGACCTGTCTACCCAGCAGCCACTGCCAGCCGCACTCCAGGCAAGGGCCAGTGCGCCTGCTCCTGAC  
CACTGCAATCCCAGCGCCCAAGGAAGGCCACTTCTCAACTGGCAGAACCTTCTGAAGTTTAGAATTGGAATTACTT  
CCTTACTAGTGTCTTTTGGCTTAAATTTTGTCTTTTGAAGTTGAATGCTTAATCCCGGAAAGGAACAGGAGT  
GCCAGACTCCTGGTCTTTCCAGTTTAGAAAAGGCTCTGTGCCAAGGAGGACCACAGGAGCTGGGACCTGCCTGC  
CCCTGTCTTTTCCCTTGGTTTTGTGTTACAAGAGTTGTTGGAGACAGTTTCAGATGATTATTTAATTTGTAAAT  
ATTGTACAAATTTTAAAGCTTAAATTGTATATACAGCCAAATAAAAACCTGCATTAAAC

134/5332  
**FIGURE 120**

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG  
CGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCCAGGTTTGTGGAGTCTGTGGATGAATATCA  
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCAAAGCATGAACATTATCCTACCCCTAGTGG  
CTGGCAGCCTCCCAGAGACCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT  
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAGTGGAAGGGGACATCTGGGCCCTGCA  
GAAAGACGTGGAAGATTTTCTGAGCCCGCTGCTGGGGAAGACACCTGTCACCCAGGTCAATGAGGTGACAGGTAC  
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGAGAAAGGCTTCTGAGGCCAGCCGA  
GCAGCCTGCTTGTGAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC  
CTGAGACAGGGGATACAGAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC  
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTCAG  
CAGCTTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTGTTTTTGTAGACGGAGTCTCACTCTGTTGCCAGGGT  
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT  
TGAGTAGCTGGGATTACAGGCGCCACCAACACAGCCTGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCAC  
CATGTTGGCCAGGCTGGTCTCAAACCTGACTCGAAGTGATCCGCCCACCTTGGCCTCCCAAAGCGTTGGGATT  
ATAGGCATGAGCCATGTGCCTGGTCCACCTTGGCCTGTTTTGTTTTTCTTTCCTTGGGCTCAGCAATTCAAATTC  
TAGTTGTTATTTGGTGGAAGCAGTAGCCCAACCCCAAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC  
TTTGTTTCCTTGGCCCTCCGAAGCTCACTGTTGCAAAATACCCCAAGCCTTTGCTCTAGGCCAGATCTTGTTTGG  
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGTCTTGAGATCTTCTGTTCAAAGTACAGTGCTGGCACT  
GGGGCACAGAGTGGCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT  
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAATCAGAGCCAGCATAGGGACATCCCCCTGCA  
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGAGGCAGGAATATGCTGACCTTTACCCCTGCCATCCCA  
TCCCAACCCCAAGCTCACTAGCCTTATATATGCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCAC  
CCTGCCCCCAACTGGCTAAGACAGCTTTCAGTTTCTGACTCCCCAACTTGGTCTCTGCCCTGAAGCAGGGCACT  
GAACTCTGGGCTGCTTCTCTGTGTGTAATGGGCACATCTTCTAATCTGTTAATGGTCAGTGGTGTCCCAAG  
GATAGTGCTGGCTTCCATGGAAACCTCACTCCTGGAGATTCCATTCCATTTTCAAGTGTACAGCCACAGCAAGG  
AGCCCGACACTGATTTGATCGATTCTGTGACACAAACCCACCAATTGTTAATGCAAGTTTTTATTGGCTGTAT  
ATACAATTTAAGCTATTAAATTTGTACAATATTTACAAATTAAA

135/5332  
**FIGURE 121**

CAGTGACGTGACACGCAGCCACGGTCTGTACTGACGCGCCCTCGCTTCTTCCTCTTTCTCGACTCCATCTTCGC  
GGTAGCTGGGACCGCCGTTTCAGTCGCCAATATGCAGCTCTTTGTCCGCGCCAGGAGCTACACACCTTCGAGGTG  
ACCGGOCAGGAAACGGTCGCCCAGATCAAGGCTCATGTAGCCTCACTGGAGGGCATTGCCCCGGAAGATCAAGTC  
GTGCTCCTGGCAGGCGCGCCCTGGAGGATGAGGCCACTCTGGGCCAGTGCGGGGTGGAGGCCCTGACTACCCTG  
GAAGTAGCAGGCCGCATGCTTGGAGGTAAAGTCCATGGTTCCCTGGCCCGTGCTGGAAAAGTGAGAGGTCAGACT  
CCTAAGGTGGCCAAACAGGAGAAGAAGAAGAAGACAGGTCGGGCTAAGCGGCGGATGCAGTACAACCGGCGC  
TTTGTCAACGTTGTGCCACCTTTGGCAAGAAGAAGGGCCCCAATGCCAACTCTTAAGTCTTTGTAAATTCTGGC  
TTTCTCTAATAAAAAAGCCACTTAGTTCAGTC

136/5332  
**FIGURE 122**

CTACCACCGGCGTGCGTTTCGCAGGTAGATCGCGGTGCCAGTTGCCATCGGAGCCGGCCGGGGCCCTGTGGCTTCTGC  
CCGGCGGGGGAGGTCCAGCCAGCGCGTTACACCTGCCCTCGCTGTAATGCGCCCTACTGCTCGCTGCGCTGCTAC  
CGGACGCATGGCACCTGCGCAGAAACTTCTACCGTGACCAGGTGCTGGGAGAGCTCCGCGGTTGCAGCGCTCCT  
CCCAGCCGCCTAGCAAGCGCCCTACGCCGGCTGCGTCAGCAACGCGAGACCGAGGACGAGCCTGGGGAAGCAGGC  
CTCAGCTCCGGCCCCGGCGCCCCGGCGGCCTATCGGGACTCTGGGAGCGGCTGGCGCCGGGCGAAAAAGCTGCCTTC  
GAGCGGCTGCTGAGCCGCGGTGAGGCCGGGCGGCTGCTGCCTCCATGGCGGCCGTGGTGTTGGAACCGCGGAGCC  
GGACCGCAGCTTCTGGAGGAGCTGGATAATGCCCCGGGTAGTGACGCCGCGGAGCTGGAGCTCGCCCCCTGCGAGG  
ACCCCGCCGGATTCTGTGAAAGATGCCTCCGCCGCGGAGCCCGCGGCCGCGAGCGGGTTCTTGGAGATGTCCCG  
GGGGCCTGCACGCCCCGTGCTACCCACCCGCATCCCCGCGATAGTCAGCCTGAGCCGCGGCCAGTCTCGCCGCTC  
GTGCGCTTCCAGCTGCCCCAATGTGCTGTTTCGCCTACGCGCATACTCTCGCCCTGTATCACGGCGGTGACGACGCG  
CTGCTCTCTGACTTCTGTGCCACACTGCTCGGCGTTTCCGGAGCCCTGGGTGCCCAGCAAGTCTTCGCCTCTGCG  
GAAGAAGCCCTGCAGGCGGCAGCCACGTGCTGGAAGCAGGCGAGCACCCGCCGGGGCCCCCTGGGCACACGAGGG  
GCTATGCACGAGGTGCCCCGCATCCTGCTGGGCGAGGGCCCGACCAACCAGAAAGGCTACACGCTGGCAGCACTG  
GGGGACCTGGCACAGACCCTGGGCCGTGCCCGGAAACAGGCCGTGGCTAGAGAAGAGCGAGATCATCTTTACCGG  
GCCCCGAAAAAGTGCCAGTTCCTCCTGGCCTGGACCAACGAAAATGAGGCGGCCCTCACACCCCTGGCCCTAGAC  
TGCGCCAGGGCTCACCAAGCCCATGCTGTGGTAGCCGAGGAGGTGGCCGCCCTCACTGGGGAGCTGGAGCGGCTT  
TGGGGAGGCCCCGTGCCACCTGCCCAAGAACTCTCATTGAGGAGCTCCCTAGCTTGAACGGGTTACCCTGGTCAT  
TAATAAAGCTGTGACTGGTCA

137/5332  
**FIGURE 123**

GTCCAGGCAGGTGCAGGCGCCGCGGGGCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC  
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCACTCAGGGCC  
CCCGGGCCCCGCTGGAATTCGGAGGGCCCCCTGGGCGCCGCGGCTCTGCTACTGCTGCTGCCCCGCCACCATGTTCC  
ACCTGCTCCTGGCGGCCCGTTTCGGGCCCCGCGCGCCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC  
TGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC  
GCAAGGTGGCCGAGGGGCGAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGG  
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTGAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC  
CCTTGGCGTTTGTGCGCCACCCTCACCCTTTTCATCTTCAGCCTCTTTCTCTACATGAAGGCGCAGGTAGCCCCAG  
TTTCGGCCCTGGCACCTGGGGGGAACCTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCTC  
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAACTGCGACCCGGCCTCATCGGCTGGGTCTCTCATCAACCTGG  
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC  
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCGTCTCACCACCATGGATATCACACATGACGGGTTTGGCT  
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCCAGTTTCTGCTGCACCACC  
CGCAGCCCCTGGGGTTGCCCATGGCCTCTGTCTATCTGCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG  
CGAATTTCCAGAAAAACACTTTCCGAAAGAATCCTTCTGACCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG  
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTTGGAGACCTCATCA  
TGGCTCTGGCTTGGTCTTGGCCTGCGGGGTGTACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC  
TGCTGGTGCACCGTGAGGCCCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC  
GGCGTGTGCCCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCAGGTGGGGGCATGTGCCAC  
TCATCCACCAGCACACCCAGGACCAGGAGCCTCGACACACTTGGGACTCAAGGGCTTGACCCCCACCCAGCCCTG  
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAATGAAACCAGTGACC

138/5332  
**FIGURE 124**

GGAAGTGCCTCCTCCCCGTCCCCTTCCTTTCCAGCCTCACGCCCGTGGGCTGCAGTTGGAACGATGGCGGCGGCA  
GCTGCCGCGGGCCTAGCCCGGGTCTGGACCTGGGGACTCCCCAGAAGGGCCGAGGGGGAGGCTCCGGAGCGT  
CGGCGGAAGGCGCACGGGATGCTGAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCCGCGGGG  
CCCGACCCCTGGACCCGACTGATCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGA  
GAGTGCCCTCTGGCCCAGTTGATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTCTAGACAGCGACATG  
CAGACCCCTGGTCTATGAGAACTACAACAAGTTTATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTC  
CGGAAGATGGAGGATGAGATGGACCGGTGGCCACCAACATGGCAGTGATCACCGACTTCAGCGCTCGCATCAGC  
GCCACGCTGCAGGACCGCCACGAGCGCATCACCAAGCTGGCAGGTGGGCGCTGCCGGGCAGGGCCTGCAGTGGGC  
CTTTCCTGGGGCTCTGGGGCTAACGTCACCCTCCGTCCCCCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTC  
CTCTTTGAGCTGCCCTCGCGCCTCACCAAGTGCGTGGAAGTGGGCGCCTATGGGCAGGCGGTGCGCTACCAGGGC  
CGCGCGCAGGCGGTGCTGCAGCAGTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTATC  
ACGGCCCGCTGGCCAGCAGCTGCGGCAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGAGCAGGCAGAGTGCG  
GTGGAGCTGCTGCTGGCCCTGGGCGAGCCTGCGGAGGAGCTGTGCGAGGAGTTCTTGGCGCACGCCCCGCGGCCG  
CTGGAGAAGGAGCTGAGAAACCTGGAGGCCGAGCTGGGGCCCTCACCTCCGGCTCCCGACGTGTTAGAGTTTACC  
GACCATGGAGGAGTGGCTTCGTGGGCGGCCTCTGCCAGGTGGCGGCGGCTACCAGGAGCTGTTTGGCGGCCAG  
GGCCAGCAGGTGCCGAGAAGCTGGCGGCCTTCGCCCGGCAGCTGGGCAGCCGCTATTTTGCGCTGGTGGAGCGG  
CGGCTGGCGCAGGAGCAGGTGGTGGTGACAACCTCACTGCTGGTGCGGGCGCTGGACCGCTTCCACCGGCGCTTG  
CGGGCTCCCGGGGCCCTGCTGGCCGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGGCCCGC  
GAGCGCTGGGCCACCACTGCAGGGTCTCCGGGCGGCCTTCTGGGCTGCCTGACAGACGTCGCCAGGCGCTG  
GCAGCACCTCGCGTGGCTGGGAAGGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAATGTGGCCAGCTCCATCCTG  
AGCCACATTAAGGCCTCTCTGGCAGCAGTGACCTTTTACCGCCAAAGAGGTGTCTTCTCCAACAAGCCCTAC  
TTCCGGGGTGAGTTCTGCAGTCAGGGTGTCCGTGAGGGCCTCATCGTGGGCTTCGTCCACTCTATGTGCCAGACG  
GCTCAGAGCTTCTGCGACAGCCCTGGGGAGAAGGGGGGTGCCACACCACCTGCCCTGCTCCTGCTGCTCTCCCGC  
CTCTGCCTGGACTACGAGACGGCCACCATCTCCTACATCCTCACTCTCACTGATGAACAGTTTCTGGTGCAGGAT  
CAGTTCCAGTGACGCCCGTGAGCACGCTGTGTGCAGAGGCCAGGGAAACGGCGCGGCGGCTGCTGACCCACTAC  
GTGAAGGTGCAGGGCCTGGTCATATCACAGATGCTGCGCAAGAGCGTGGAGACTCGCGACTGGCTCAGCACTCTG  
GAGCCCCGGAATGTGCGGGCCGTGATGAAGCGGGTGGTGGAGGATACCACCGCCATCGACGTGCAGGTGGGGCTC  
CTGTACGAAGAGGGTGTTCGCAAGGCCCAGAGCAGCGACTCCAGCAAGAGGACTTTCTCCGTGTACAGCAGCTCT  
CGGCAGCAGGGCCGCTACGCCCCCAGCTATACCCCCAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAG  
AAGCTATTCTCTGAACGTATTGATGTGTTTACGCCCTGTGGAGTTCAACAAGGTGTGCGTGTGACCGGCATCATC  
AAGATCAGCCTGAAGACGCTGCTGGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAA  
GTGGACTGCCACTTTCTGCAGCTCTACCTGTGGCGTTTGTGGCCGACGAAGAACTCGTGCACTTGCTGCTGGAC  
GAAGTGGTGGCCTCTGCTGCCCTGCGCTGCCAGACCCCTGTGCCATGGAGCCAGTGTGGTTGAGGTCATCTGC  
GAGCGCGGCTAGCGCGCAGCCGCTGCCATGCACCGGTCTGTCCCTGCACCCCATGGCACCCAGGATCTGGTCTCGG  
TGGTCTTCCCCGAGGAGGTGTGAGACCGGCCTAATAAACATGTGTGGCCTCCTCCTCTCGCTTGTGGGCG  
GGCCTTTCCGGGGCGGGGTTTTGAAGCTGAGGCTTCTGAGGCGCCCGCTCGGGTCCGCCCCGAGCGCCGATT  
GGCTGGTGTGCTGGGCCAGCATGGGCAGGGGGCGGTTCCACTTAAAAACCCTGGGACGA



139/5332  
**FIGURE 125**

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC  
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC  
ATGGGGCTTTGTAAGTGCCCCAAGAGAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG  
CACTGCCTGGTAGCCAATCACGCCAAGTGCATCGTCCAGTCCCTACCTGCAATGGCTCCAAGATAGCGACTACAAC  
CCCAATTGCCGCTGTGCAACATACCCCTGGCCAGCCGAGAGACGACCCGCCCTTGTCTGCTATGATCTCTTTTAC  
TGGGCCTGCCTCAATGAACGTGCTGCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGCCCCAGCTGC  
AATGGCCCCATCTTCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC  
AACTGGGCCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCAGAGCCCAGAGCCCCTCAACACG  
TCTGACTTCTCTGACTGGTCTAGTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT  
GCCCCAGCCTTCTACAGCCAGGCCCCCGGCCCCAGCTTCCCCAGGCCGCGCCGAGCAGCACACAGTGATCCAC  
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC  
CTCCATGGAGACTGTGACGATGACAAGTACCGACGTGGCCGGCCCTTGGGTTGGCTGGCCCCGGCTGCTAAGGAGC  
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCTGCTCCAGCGGGCGGGGCTGCTGCTACTCTTGGGACTGCTGGGC  
TTCCTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCCGAGCTGACAGCGATCCCAACCTGGACCCACTC  
ATGAACCCTCACATCCGCGTGGGCCCCCTCCTTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTCT  
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCCCTCTCCCTCAAGCCTAAGACACTA  
AGACCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTTG  
TCTTGACTTGCTTTCCTCCCGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGGAATAAA  
CAACAACCTTTATTAAAAAC

140/5332  
**FIGURE 126**

GCAGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCTGGAGGAGCTCGAGACGGAGCCTAAGTTA  
TGCTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTC  
TGCGGAGGTCCCAGCGGAAATCAGGCTCTGAAGTCCCGAGCATCTCCCTGAAATCTGGCCGAAGACACCCAGTG  
CGGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC  
CTCGCAGGAGCCCTAGGATTTCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG  
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCT  
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCTTACAGCCGGCTGGAGA  
CCCTGGGCTCTGCCCTTACCTCCACCCAGGCCCGCGGTCTGCTTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG  
ACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAAACTCACCGAGGTCCCAGGGTTTGTGCAAAGCCCTGGGGCC  
CAGACATGACTCTCCCTGGAATCTCCCCACCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT  
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGCTGCTGAGCAGTTTGATCTCCTGG  
TTGAATGAGATGCAGTGGGGGGTGCACCTGGCCAGACTCTCCCTCCTGTCTGTACATAGCCACCTCCCTGTGGA  
GAGGACACTTAGGGTCCCCCTCCCCTGGTCTTGTTACCTGTGTGTGTGCTGGTGTGCGCATGAGGACTGTCTGCC  
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGTTTGTAGGAAATGGGGCCGCCTGCCCAGCCACTCACTGGTG  
TCCTGTCTCTTGTCTGCTCTGCTTCTTCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGGCCACAGACTGG  
GGAGGAGAATCAGTGGCCCAGCCAGAAGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTTGGG  
AGGGGTGGCTGCTTGGAAATAGGCCAGGGCTCTGCCAGCCTCGGCCTCTCCCTCCTGAGTTGCCTTCTGTTGGT  
GGCTTTCTTCTTGAACCCACCTGTGTAAAGAGGTTTTCAGTTCCTGTTGGGTTTCCCCTTTGATTCTGTAAATAGTC  
CCAGAGAGAATTCTGTGGGCTGAGGGCAATTCTGTCTTGGAGGAAGAAGCTGGACATTACGCCTGTGGAGTCTGAG  
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT  
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGGAGCAAAGGGTGCATTT  
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGACAGGGGCCACG  
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCTCTTGTACCCATACCCATTTCTTACAAAATAA  
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCCAGACCTACTAGCATTTTGCAACTATGCT  
TGTAAGTCCCTCGGAAAGTTTCTCGCGTACCAGACAGCGCGGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC  
CTATCCTCTCACATGAGAACACTGCCTGGATGCATCTCATGATCTCTGGAGAATTTCCCCATCTTTCTTCTTT  
CCATCGTGTGGATTCAATAGTGTGGATTTGAAGGCTGCCCTGCCCCGACTCTCCTGCCGCACCCCTGGCCATTG  
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGAGAGGAGCTGGTGGATAACAGAGAATGC  
CAGGGAAGATGAGTGTGGTCTAGGGTACTTGGATGAAACGGTGCAGGCCAGGCGGGCCCTAATAAAAACCCTCTG  
CCAGGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTGAGACCTGCAAGCAAGCCCCCTGCTGGG  
GAAGCCTAGGTGCTCTTGGAGCTGAACCGCACTGAAGAACTCTGTCTCTACTGGCTGATGCAGCAGAATCTTGG  
GAAATGTCTTAGTCTGAGAAATCAGGAGTCACCAGATGATGAGAGTTGAGATCATCATTGCAAAGTTCTCTGT  
TCCTGAGGAATAAATTTAAGGAAAAAATGGGATTTTGTTTTAGAGTTGGAAAAAAGCCTGATTAAAGAGTTTC  
TGCCCTGTT

141/5332  
**FIGURE 127**

GTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTT  
TCCCTGGCAGCTTTTCAGTGTCTCAGTGTGGTTTCTTACCTCATCTGGCTCTTCTCTCTGTACCATCAGCTTC  
AGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTA  
GACATTACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAA  
CTCATTATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACC  
TATGTTGGTGCTGTTTTTAACGGAATCACCTTCTAATTCTTGCTGAACCTGCTCATTTCAGTGTCCCGATTGTC  
TATGAGAAGTACAAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAG  
ATCCAAGCAAACTCCCTGGAATCGCCAAAAAAGGCAGAATAAGTACATGGAAACCAGAAATGCAACAGTTAC  
TAAAAACACCATTTAATAGTTATAACGTCGTTACTTGTACTATGAAGGAAAATACTCAGTGTGAGCTTGAGCCTGC  
ATTCCAAGCTTTTTTTTTTAATTTGGTGTTTTCTCCCATCCTTTCCCTTTAACCTCAGTATCAAGCACAAAAATT  
GATGGACTGATAAAAGAACTATCTTAGAACTCAGAAGAAGAAAGAAATCAAATTCATAGGATAAGTCAATACCTTA  
ATGGTGGTAGAGCCTTTACCTGTAGCTTGAAAGGGGAAAGATTGGAGGTAAGAGAGAAAATGAAAGAACACCTCT  
GGGTCTTCTGTCCAGTTTTTCAGCACTAGTCTTACTCAGCTATCCATTATAGTTTTGCCCTTAAGAAGTCATGAT  
TAACTTATGAAAAAATTATTTGGGGACAGGAGTGTGATACCTTCCTTGGTTTTTTTTTGCAGCCCTCAAATCCTA  
TCTTCCTGCCCCACAATGTGAGCAGCTACCCCTGATACTCCTTTTCTTTAATGATTTAACTATCAACTTGATAAA  
TAACTTATAGGTGATAGTGATAATTCCTGATTCCAAGAATGCCATCTGATAAAAAAGAATAGAAATGGAAAGTGG  
GACTGAGAGGGAGTCAGCAGGCATGCTGCGGTGGCGGTCACTCCCTCTGCCACTATCCCCAGGGAAGGAAAGGCT  
CCGCCATTTGGGAAAGTGGTTTTCTACGTCAGTGGACACCGGTTCTGAGCATTAGTTTGAGAACTCGTTCCCGAAT  
GTGCTTTCCTCCCTCTCCCTGCCCCACCTCAAGTTTAAATAAATAAGGTTGTACTTTTCTTACTATAAAATAAATG  
TCTGTAAGTGTGTGCACTGCTGTAACTTGTTAGAGAAAAAATAACCTGCATGTGGGCTCCTCAGTTATTGAG  
TTTTTGTGATCCTATCTCAGTCTGGGGGGGAACATTCTCAAGAGGTGAAATACAGAAAAGCCTTTTTTCTTGATC  
TTTTCCCGAGATTCAAATCTCCGATTCCCATTTGGGGGCAAGTTTTTTTTCTTCACCTTCAATATGAGAATTCAGC  
GAACTTGAAAGAAAAATCATCTGTGAGTTCCTTCAGGTTCTCACTCATAGTCATGATCCTTCAGAGGGAATATGC  
ACTGGCGAGTTTAAAGTAAGGGCTATGATATTTGATGGTCCCAAAGTACGGCAGCTGCAAAAAGTAGTGGAAGGA  
AATTGTCTACGTGTCTTGAAAAAATTAGTTAGGAATTTGGATGGGTAAAAGGTACCCCTGCCTTACTCCATCTTA  
TTTTCTTAGCCCCCTTTGAGTGTTTTAACTGGTTTCATGTCTTAGTAGGAAGTGCAATCTCCATCCTCATCCTCT  
GCCCTCCCAGGAAGTCAGTGATTGTCTTTTTGGGCTTCCCTCCAAAGGACCTTCTGCAGTGGAAGTGCCACATC  
CAGTTCTTTTCTTTTGTGCTGCTGTGTTTAGATAATTGAAGAGATCTTTGTGCCACACAGGATTTTTTTTTTTTT  
TTAAGAAAAACCTATAGATGAAAAATTACTAATGAACTGTGTGTACGTGTCTGTGCGTGCAACATAAAAAATACA  
GTAGCACCTAAGGAGCTTGAATCTTGGTTCCTGTAAAATTTCAAATTGATGTGGTATTAATAAAAAAAAAAAAAA

142/5332  
**FIGURE 128**

GAACCCGCCCTGCTCGTGATAAGGCACAAGCAAGGGCTGCCCTGAAGGAAGCTCCAAAGAGAAAGGAGGGCAGGA  
AGCCCACGGCCACAGGGGTGTAGCCCGAGACCCACCTGCAGCCCCAGCCCTTGCCAGGAAAGCAGCAGCCGCA  
GCCATGGCGGGGATGAAGACAGCCTCCGGGGACTACATCGACTCGTCATGGGAGCTGCGGGTGTTTGTGGGAGAG  
GAGGACCCAGAGGCCGAGTCGGTCACCCTGCGGGTCACTGGGGAGTCGCACATCGGCGGGGTGCTCCTGAAGATT  
GTGGAGCAGATCAATCGCAAGCAGGACTGGTCAGACCATGCTATTTGGTGGGAACAGAAGAGGCAGTGGCTGCTG  
CAGACCCACTGGACACTGGACAAGTACGGGATCCTGGCCGACGCACGCCTCTTCTTTGGGCCCCAGCACCGGCCC  
GTCATCCTTCGGTTGCCCAACCGCCGCGCACTGCGCCTCCGTGCCAGCTTCTCCAGCCCCTCTTCCAGGCTGTG  
GCTGCCATCTGCCGCCTCCTCAGCATCCAGGCACCCCGAGGAGCTGTCCCTGCTCCGGGCTCCTTGAAGAAGGA  
G

143/5332  
**FIGURE 129**

AGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTGTCAAACCTCCTGACCTCAGGTGATCCACCCACCTTGGC  
CTTCCAGAGTGCTGGGATTACAGGCATGAGCCACCGCACCCAGCGTTGTTTTGTTTTTTAGTCAGCAATGGTTTT  
GGATTCCAAAGCTCTCAGGACCAAGGCCACGCATTTTGTCTAGTTGTCATGTACTCTTCAGTTTCTCAAACCTGG  
AATTGTCCCCCGCTATGTGTTTTTCATAACATCAGCCTCTTGCAGAGTCCAGGCAGTTTGTCTTGTGTGGGATGA  
TCCATCATCTGGAGTTGTCTTTCCCTGATGTTGTCCCTCTGTTTGGTGCTGGGTGAGGCATTAGAGTTGGAAGTC  
CACATGCTTGAGTTGCCTGTACTGAGCTTGTCCAAGGGAATGAGCCTAATTCTTTCTGTTGCTTCATTCTAGGA  
CTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGGGTTATACACGGAAGCCGCTGCGCTGGAAGCGAT  
GAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGA  
CGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACGACAGCCCCGAAGATGTGAAGCGACGAGCCATGGC  
CGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGGACCCCCA  
GGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAAGCTGATGGATGTGGGTCTGATTGC  
AATTCGGTGAATGACTTGTTTCATCCCCCTTCCCTTCGCCCTCATGTGGAAAGAGGAGCTGGGACCGCGGCGAGCA  
GCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATCTCTCTATATTTATACATAACCCCGGGGAAGACAC  
AGAGACTCGTACCTGCGCTGTTTGTGCGCGCGCTGCCTCTGGGCCCTCCCAGCACACGCATGGTCTCTTCACCGC  
TGCCCTCGAGTTCCATGTCTCTTTCCCTGCCCCTAGTTGCTGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTT  
TTATTTGGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGGTTCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTT  
GTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGGGCGTGTTATATGTT

144/5332  
**FIGURE 130**

AAAACACTAAGGGGAGCGCGCGAAGCTGAACTTGGCGCTCGATGGGGGCCGTTAGCCGCCCTAGAGCGCGCGGAG  
CCGCAGAGGCGTAGCTGGACTACAACGCAGTGCATCTCGGGAGGCCAACTCGACTGGACTGGGTGAGAGGACAGA  
GGTGGCTCGATGGGCGGCCCCGAAGGCCGGGGATCATGGCGGGAAGGCGGGCCAGACAGGTTAGCCCCGCCCC  
GACCCGCCGCTCCCCACCCCCGGCCGGCCTCGCGTGCTTCCCGCAGCACTGCCGTCCCCGGGATGCTGAGCGC  
CCACCGTCTCCCCGCAGCCCCCTCATGCCCCGGCTGCGAGCTGCCCCGTGGGCACCTGCCCGGACATGTGCCCGGCC  
GCCGAGCGCGCCAGCGCGAAAGGGAGCACCGCCTGCACCGCTTGGAGGTGGTGCCGGGTTGCCGCCAGGACCCG  
CCCCGCGCGGATCCGCAGCGCGCGGTGAAGGAGTACAGCCGACCCGCCCGCCGCAAGCCCCGGCCCCCGCCAGC  
CAGTTGCGTCCGCCCTCCGTGCTGCTGGCCACCGTGCCTACCTGGCCGGTGAGGTGGCGGAGAGCGCCGACATC  
GCCCCGCGCGAGGTGGCCAGCTTCGTGGCAGACCGCTTGCAGCTGTGCTCCTGGACCTGGCGCTGCAGGGAGCG  
GGCGACGCCGAGGCAGCTGTGGTGCTGGAGGCGGCGCTGGCCACGCTGCTGACCGTAGTGCGCGGCTCGGGCCC  
GACGCGGCGCGGGGACCCGCGGACCCGGTGCTGCTGCAGGCCAGGTGCAGGAGGGCTTCGGCTCGCTGCGGCGC  
TGCTACGCGCGGGGCGCCGGGCCGACCCCGCCAACCCGCCTTCCAGGGCCTCTTTCTGCTCTATAACCTGGGT  
GAGTCGGGATCCTGGCGGCTGGGCAGAGCGTGGGGACAGGAGCCCACCATGACAGTGGAGGCTCGGTGGAAGCCC  
TGCATGAGGTTCTACAGCTGCCTGCTGCCCTGCGCGCCTGCCCGCCCCCTCCGCAAGGCCTTGGCGGTAGATGCTG  
CCTTCCGAGAGGGCAATGCTGCCCCGCTGTTCCGTCTGCTCCAGACCTGCCCTACCTGCCAAGTTGCGCTGTGC  
AGTGCCATGTGGGCCATGCCCGCCGGAAGCCCTGGCCCGCTTCGCTCGTGCCCTTAGCACCCCCAAGGGCCAGA  
CCTTGCCCTCTGGGCTTCATGGTCAACCTCTTGGCCCTGGATGGACTCAGGGAAGCACGGGACCTGTGCCAGGCCC  
ACGGGCTGCCCTTGGACGGAGAGGAGAGATTGTGTTCTGAGGGGTCGCTACGTGGAGGAAGGGCTACCGCCTG  
CCAGTACGTGCAAGGTGTTAGTGGAGAGCAAACCTTCGAGGACGTACCCTGGAGGAGGTGGTCATGGCAGAGGAGG  
AAGATGAGGGCACGGACAGACCTGGGTCCCCAGCCTGAGGAGGGAGCGTGAGCCTCCCAGAGCCCCAGGACTGGG  
CCAGAGCACTTAGGTTTCTTTTCCATGGTTCCAGGTAATAAAGGAACCTGTTTTGTTGGT

145/5332  
**FIGURE 131**

GCGCAGGCCTGGCGAGGCGGCGGGCGGAGGCTGGGCCGAGGGGTGGGGACGGCGAGGAGGTGGAGGCCGGC  
GCTCCGCTCCGCTCCAGCTCGGTTTCATGTCCCGCCAGGCGAAGGATGACTTCCTGCGGCACTACACAGTGTGCG  
ACCCAGGACTACCCCAAGGGCTACACCGAGTACAAAGTAACCGCGCAGGTGGTGGTCTGGAAGCGGTACAGCG  
ACTTCCGCAAGCTGCATGGAGACCTGGCCTACACCCACCGCAACCTCTTCCGCCGCTCGAGGAGTTCCCTGCTT  
TCCCCCGGGCCCAGGTGTTTGGCCGGTTTGAAGCCTCAGTGATCGAGGAGCGGCGAAAGGGGGCAGAGGACCTGC  
TTCGCTTCACTGTGCACATACCTGCGCTCAACAACAGCCCCAGCTCAAGGAGTTCTTCCGGGGTGGGGAGGTGA  
CCCGACCTTGGAGGTGTCCAGGGACCTACACATCCTGCCACCCCTCTGATCCCCACCCGCCCCCTGATGACC  
CCCGGCTATCCCAACTGCTCCCTGCAGAAAGGAGGGGCTCGAGGAATTGGAGGTGCCAGTGGACCCCCACCAT  
CCAGCCCTGCCCAGGAGGCCCTGGATCTCCTCTTTAACTGTGAGAGCACCGAGGAGGCATCTGGTTCCTTGCCC  
GAGGCCCCCTCACCGAGGCTGAGCTTGCCCTCTTCGACCCCTTCTCCAAGGAAGAAGGCGCAGCCCCCAGCCCCA  
CCCATGTGGCTGAGCTGGCAACGATGGAGGTGGAGTCTGCAAGGCTGGACCAGGAACCTGGGAGCCAGGAGGGC  
AGGAGGAGGAAGAGGATGGGGAAGGAGGGCCACCCCTGCCTACCTAAGCCAGGCCACAGAGCTCATCACCCAGG  
CCCTGCGGGATGAGAAGGCAGGCGCTTACGCTGCTGCACTCCAGGGCTATCGAGATGGCGTGCACGTCTTGCTTC  
AGGGAGTCCCCAGTGACCCGTTGCCTGCCCAGGAAGGTGTGAAGAAGAAGGCAGCTGAGTACCTGAAGCGGG  
CAGAGGAGATCCTGTGCCTGCACCTGTCTCAACTCCCACCCTAACAGGGAGTGGGCCCTTCCCTGGGACTCTCGC  
TCCTGCACTGCCAGCCCCCTTCTCCTCTCCCCAGGGCTGGCCCTACCTCCTGGTCTTGTAATTACAGGAGCCATT  
TCTGTAGGTAACTGGACCAAGAATGAGAAAAATAATGAATTCTTAGCTCCCTGATTACACCTGCCACCTTGGAAT  
CAAGGACTCACACTTCTGACCCCTGCCTGTCTTTTTGGGGTTTTTTTTGAGTTGGAGTCTCGCTGTGTGCGCCAGAC  
TGGAGTGCAGTGGTGGGATCGCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCAGTTCTCCTGTCTCAGCCT  
CCCCAGTAGCTGAGATTGCAGGCACATGCCACCACGCCAGCTAATATTTTTGTATTTTCAGTAGGGACGGGGTTA  
CACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCTCAGTCTCCCAAAGTGCTGAG  
ATTACAGGCATGAGTCACTACGCCCCGCCCATGTCTGTCTGTCTTGATGTGTGAGCAGCAGCTGTGGTCATTAAA  
CCATTAGTTTTACCCCTCTAGAACTGGGGTCTGCAAACTCCCACCTGCAGCCAAATCTGGCCACCTCCTTTTTAA  
TGTAAGGGCTGTGAGAGTGGTTTTTACTTTTTTTAATGATTAAAAAATCAAAATAATATTCTGTGACAATGACA  
GGTGAAATTTATATGTGACAAGTGAAAATTATATGAAATTTAAGAGTCCATAAATAAAATTTGTTGGAACAC

146/5332  
**FIGURE 132**

CTCCGGGGACCATGGGGCTCCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC  
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA  
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT  
CCCTGCGGTCCTACTGGCGGAACCTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC  
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCCTCCTCA  
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCCTCTAACGCCATCCGCGAGGTCTGGAGCTGGACTCCA  
TCCGCAGCCACCCTGGTGCATCCAGGGCTGCAGCGCCGTCACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC  
TCCTGGATGACATTTCCAGCCGCATTTTCACAGCTGACTTGAACCACTCCAGATGCCCCCACCTAGCAGTCCAGG  
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAACTAACACTCCCCCTCCTCCA  
CCCCAGCCTGCTGCTGCTACTGCTGCCCCGCTGCTGCTCTGTGGCCACCCGGCTCCCATGGCGGGAGGGCTGTGCC  
CTGGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATACCAAGAAGAGAGGGCTGGGCGGGGAGGAGCTG  
CTACTGCTGCTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCG



147/5332  
**FIGURE 133**

GGAGACCGGAGGTCTGAGCTGCAGCCACTACACAGGCCTGGAATTCTACCACAGGGAATTTGCAGCACGAGTCTC  
TGGAAAAAGACAACCTCGCCCTGCGGAAGGAGATCCAGTCCCTGCAGGCCGAGCTGGCGTGGTGGAGCCGGACCC  
TGCACGTGCATGAGCGCCTGTGCCCCATGGATTGTGCCTCCTGCTCAGCTCCAGGGCTCCTGGGCTGCTGGGACC  
AGGCTGAGGGGCTCCTGGGCCCTGGCCACAGGGACAACATGGCTGCCGGGAGCAGCTGGAGCTGTTCCAGACCC  
CGGGTTCTGTACCCAGCTCAGCCGCTCTCTCCAGGTCCACAGCCTCATGATTCTCCAGCCTCCTCCAGTGCC  
CCCTGCCCTCACTGTCCCTTGGCCCCGCTGTGGTTGCTGAACCTCCTGTCCAGCTGTCCCCAGCCCTCTCCTGT  
TTGCCTCGCACACTGGTTCCAGCCTGCAGGGGTCTTCTCTAAGCTCAGTGCCCTCCAGCCCAGCCTCACGGCCC  
AAACTGCCCCCTCCACAGCCCCCTCGAGCTGGAGCATCCCACCAGAGGGAAGCTGGGGTCTCTCCGACAACCCTT  
CCTCTGCCCTGGGGCTTGACGTCTGCAGAGCAGGGAGCACAAACCTGCTCTCTCAGCAGCCACTTGGCAAGGGC  
TGGTTGTGGATCCCAGCCCTCACCTCTCCTGGCCTTTCTCTGCTCTCCTCTGCTCAAGTCCACTTCTAACTG  
GTCTTCGGAGCTGGGTGGCCCCCTTCTTTGGGCTCAGGAAGCAGCCTTAGCACACGGGCCTCTCCTCCCTCACTA  
CTGGGTGCTGCCCTGCGTGGCTGACCAGCTGGCCCAGGATTTACAGTCGAAAAGGAAGCCACCACTGATGCCTC  
CCACTGTGACAGGCCCTGTCAACCACCAATATCTTATTTCAACCTCACAGTTGACCTGAGAAATCGAGATTATCAC  
TCCACTTTTTTCAGACAAGGAAACTGAGGCTCAGGGAAGCCAAGTGACAAGTCCAAGGTCACGAAGACTTTCTTGG  
AGCCCGAAACACCACCCTCTGCTCCTCCTTCTCCTGTCTGGCCCAGGCATCCTAGGGGCTGAAATCCTGGAAAC  
CGTGGGCTGGTGTGAGAAGGTTTGCATGCTCAGAGCAGAGAAGGGCTCTCCCCACTGCTTCGTGATTCCAGGGCC  
AGAGCCATGCAGTCCCAGAAACCCCAACCTAGCTGGGGCAGGTCCAGAGTCCAAGCCCTGGTGGGTAGAGGCCAA  
GCAGAAGCCCTGAAGTGGACTCTTGCTTCCCCTAGTAGTGTTTTAGTGCCAAGAAGCTGAAACTGTGAGCTGGA  
GTTGGGGAGAGGTCTGGAAGAGGACCATCTGGGATTTCTACAGCCTGGGTACCCATAGCCACACCAAGGCTTCTG  
GGAGATTCTGCAGGGTCAGCTTTCCAGGCTGTTCCCAAATAGCTCCCTGCCTCCCCACTGCCCTAAAGCCACAG  
CAGAAGAGCCATTATCTCATAAACAAAAAGGAAGAGGAAAGAATGAGGAAGGACCCGTGCAAGGTTATTTGCA  
GGCAGGGATGGGCTTGTAACCTGACAGCACCCACCCCTGTGTGGCCCCCAGGCCCTCATCACCTCAGACCCCTCC  
TAAGCAGTTCCCTCATTGCTCTTTGGACTAGGCTGACAGCAGGAAGAGCAGGGCCCATGACCGGGTGAAGTTCA  
GTTTTGGTGTCTGCTTCAAGAGGGGGTTTTACACTCTGATTCCAGGACAAGCACTCTGAGGCGGGTGGGGGAGAG  
AAACCTGGCTCTTACCCAGGTTTACACACATGTAAATGAAACACTATGTTAGTATCTAACACACTCCTGGAT  
ACAGAACACAAGTCTTGGCACATATGTGATGGAAATAAAGTGTTTTGCAATCTTT

148/5332  
**FIGURE 134**

ATGAGGAGCGTGACCAGACTTGCACTTTAGAAAGAGTGTTCTCGCTGCTGCATGGAGACCTGGAAGGTGCCAG  
GGTCTGGGCACTCTCACAGCGTCTCCTGGCAGCCTGGCTGTGAAGTGGGCCCCACGCTGTCCCCACGCTGGAGCT  
CTCAAGTGGCAGTTTGAAGCAGCACTGTGCTGGCTGCAGCGCGACATATCCTGCAGGCTCATGGGCCCCCTGGGGG  
GAGCCCCCTGCTCACTTCCTTCAAGGGCTCCGTGCTAGTGCTGGGGGTCCAGTGTGCAGCACCTCCCTCCGCCTG  
CTGCATCTAGAAACCCAGCCCTCCTCAGACCTCCGCTGTGAGCTGGGGATTCCAGTCCACACATATGCCATCATC  
CGAGTTACTCAGGGGCTGCCTCGTAAATTATTATCGACCCACTGCTGCCCGGGCTGGAGAAAGAAGGAGCTAAGC  
CCTGTGTACCCACTGCCTTCATCTCCTGAAACAGCCCCCAGGAGAGTGGTCTGTGGACCCACAGTGCAGAGAAG  
CCAGCCCTGGGCAGGCGTCCAGCCTCCGGTCATTAGACGTGCACAGCGTGTCTGTGTACTGGGTGGACAGGGT  
GAGGGACCACAAGGACCAGGCCAAGCATGCAGCATCATGAGATCATCACAGGAGAGTGAATATGAGGACAAGGAC  
CCGTGGCTGCATGTCTCCTGCAGGGTGGCTGGGGCCGCGGGCAAGGCCAGCCTTGCAAGGCTGCAGCGAGTGAAGCTG  
CAGGATGCTGGTACCAGCTGCGCCCATTTCTTGGGGACTGCGTGCTTGCTTCCCTCCAAGCCCAGAGCTCCAGCAAGGG  
GTGGCAACTGTGGAGAGCCCCGTGGTTGGGCCTGGCCTCCCTGCCAGTCTCCCCCGCCCTCCGTCCCCGGAAGGC  
AGGCAGCCCGCCGCCCCCAGAGAAATATTAGCACGAATTCGATTTGGGCGCCTGCCACAGTGCAGGGAGGGGGC  
TTCGCGGGAAGAACAATCCATGTTCTTGTGCGAGTCTACAGACCTCTGTCTCCGCCATTCACCACCCTTAAC  
CGCACTGGCATAAAGATATGTCTGGAACCTGCCAACTCCCACTCTGAGTTCTCGCTGTCCCCCTCTGCCGAGAC  
AGTCTCCACGGCCAGCTATGTGTCTCAAGCTGGCCCCCTGCCCCACACCCCTGCTCAGAGAGGCCTCCCCCCC  
TGCAGTCACCCGTCTTTTGGGTTTCTTGTGGCCTGTCTCCCCAGCTTGGGGTGCCCTCCCTGAGGGCAAAGCCT  
GGCTCCCCCTTTGCTGCTGGGGCACCTCAAAGCTCGGTGAAGAGCACATATTTCCCAACCAACCCTTCAACCCCA  
GAGCCCCTAAGTGGCTGGGCTGGATCCGGGTCCCCAACTGCATCTCTGGCCCTGCAAGGCTCTGGGGGCTGTGGG  
CCCCCTCCCCAACACAGGGCTGGATGCGGCTGCTGGGTTTCTCAGTGGGAAGCTCCAGTGTTTACCCTGCCGAG  
GCCCAGCTTTTACTCCCCAAGGAGTGTGTTTGGGAGGCGAGAACCACGCGCACGCACACTCTCGCATGCCATCT  
GATGTGCCAGACCTCACAGGCTCCCGGCCCAGACGTACATGTGCACCCCCAGCGCTGGCTCTGGCCTGCACCTGC  
CGTACCTGGGCCAGGCCAGTGGCCTCAGCACGGCAGGCAACTGGCACTAATTTGAATTAGTTAAGTTAATTAGG  
CCGGCATCACCCCTGTACCCATCTGTGGGTTGGGTGCAGAACCAGCCCTCCATCCCACAGCAGCTGAGGATGAA  
GCAGACCCTGCTCCCGACCCCCAAGTCCCCCAGGCCCAGCCACAGCTCCCACTCACTCCCACCCCTGGCTGCCA  
GCCGGGGCAGGCCCCAGCGGTTATGAGTTCAGCAGTCGATTGATTGGGGCTCACATCATCTTGTCTGCCGGGAG  
GATTTAGTGCGCGCGCGGTCAATAGTGCCTTTGTTTTGCTATCGACCTGCTGGAGCGGCTCAGGAGCCAGCCCG  
TTCCCCCTCGGCAGCTGAGGCCTCTCCAGACTGCAGAGCCGGGACCTAG

149/5332  
**FIGURE 135**

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCCCAGAAAAACAAGATATACCCTAAATATGCAC  
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTG  
GCAGCTTTCAGTGTCATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATC  
TACAAGTCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT  
ACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATT  
ATTCTGCTCTTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT  
GGTGCTGTTTTTAACGGAATCACCTTCTAATTCTTGCTGAACTGCTCATTTTCAGTGTCCCGATTGTCTATGAG  
AAGTACAAGGAGATGGGCCACTTAA

150/5332  
**FIGURE 136**

GGCCTGAGGGCGCCGCACTCGACTGCTTCGAGGTGACGCTGAAATGCGAGGAAGGGGAGGACGAGGAGGAGGCCA  
TGGTGGTGGCCGTAAATTCGCGGGCCCGAGCCGATGCTCAGAGTGACCCAACAGGAGAAGACCCACCGCCTAGAC  
CCAGCCCCGTAGAGGCAGGCAGTGATGGCTGTGAGGAGCCGAAGCAGCAGGTGTCTTGGGAGCAGGAGTTCCTGG  
TGGGCAGCAGCCCAGGAGGCAGCGGGCGGGCACTGTGCATGGTGTGTGGCGCTGAGATCCGGGCACCCTCGGCCG  
ACACAGCTCGCTCGCACATCTTGGAGCAGCACCCCTCACACCTTGGACCTGAGCCCTTCTGAGAAGAGCAATATCC  
TGGAGGCCTGGAGTGAAGGGGTGGCCCTCTTGCAAGACGTGAGAGCTGAGCAGCCGTCCCCACCCAACCTCAGACT  
CGGGCCAGGATGCCCACCCAGACCCAGACGCCAACCCAGACGCTGCCAGAATGCCAGCCGAAATCGTCGTTCTCC  
TTGACTCTGAGGATAACCCATCCCTCCCTAAAAGGAGCAGGCCCAGGGGACTCCGCCCCCTCGAGCTTCCTGCTG  
TCCCTGCCACAGAGCCAGGAAATAAGAAGCCCCGTGGTCAGAGATGGAAGGAACCCCCAGGGGAAGAGCCAGTCA  
GAAAGAAAAGAGGCAGACCTATGACCAAAAACCTGGACCCTGACCCAGAGCCCCATCGCCAGACTCGCCCCACGG  
AGACTTTCGCAGCACCAGCCGAGGTCCGACACTTCACTGACGGCAGCTTCCCCGCCGGCTTCGTCTTGACGCTCT  
TCTCCACACCCAGCTCAGGGGCCAGACAGCAAGGACTCACCCAAAGACAGGGAAGTGGCAGAAGGAGGCCTTC  
CCGGGGCGGAGAGCCCCCTCTCCAGCTCCCCCTCCGGGGCTCCGCGGGACACTGGATCTCCAGGTTATCCGCGTGC  
GGATGGAGGAGCCCCCAGCGGTCAGCCTCCTGCAAGACTGGTCCAGGCACCCCCAGGGCACCAAGCGTGTGGGAG  
CAGGTGACACCTCAGACTGGCCCCACAGTTCTGTCAGAATCCAGCACCACTGTGGCAGGGAAGCCGGAAGAGGGA  
ATGGAGTGTAATTTCTTGCTTTCCTGGGGAGGGAGGGAGGGATGAGGCAGCGTCCCCCAGTGGCTTATAACTCAG  
AGCTGCCTGGCTCACCCACCTGGTGGAGAGAGTAGAAACAGGTGCCAGGGCAGGAGGGGGCTGGGGCAGCATCCA  
CTGTTATTTGCGGGCACTGGAAAAGTGTCTGTTCTGGCCAGGCCTGAGGTGCGCGAGGGTGGCTGAGGCTGTTGT  
GCAGTAGGGCACTGGGCCTGTGGAGAACACCTACCCAGTCCCTTCGCTGACCCCCACCTCTGTTTGTCCCCATG  
ACCTCCTCCACCCCTCCCCCTGCTCCCCACCATTCCTCCCTTGGCACAGTGCCTTACACAAGAGTGGTCATAAGGG  
GGTTTGAAGTGAAGTCCCACTACCTCGGGGGACACCTCTCTCCCACTTGTTTCAGGCTTCTAAACCAGGAGGCCT  
CCATTACCTCTTCTGTGTCACCCCTGCAGAGGCCTGAAGCTGGGCCTGGGCACCCATTCACTCCCGTTCTCAT  
TTACATCTGTTTTCTGTTGTATATATCACCTTTGTTGACAATAAATTATTTTTTTTATT

151/5332  
**FIGURE 137**

CCCACCTTGGGACACCTTGACTCCAAGCCCAGCAGTAAGTCCAACATGATTTCGGGGCCGCAACTCAGCCACCTCT  
GCTGATGAGCAGCCCCACATTGGAAACTACCGGCTCCTCAAGACCATTGGCAAGGGTAATTTTGCCAAGGTGAAG  
TTGGCCCCGACACATCCTGACTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGACTCAACTGAACTCCTCCAGC  
CTCCAGAACTATTCCGCGAAGTAAGAATAATGAAGGTTTTGAATCATCCCAACATAGTTAAATTATTTGAAGTG  
ATTGAGACTGAGAAAACGCTCTACCTTGTTCATGGAGTACGCTAGTGGCGGAGAGGTATTTGATTACCTAGTGGCT  
CATGGCAGGATGAAAGAAAAAGAGGCTCGAGCCAAATTCCGCCAGATAGTGTCTGCTGTGCAGTACTGTCACCAG  
AAGTTTATTGTCCATAGAGACTTAAAGGCAGAAAACCTGCTCTTGGATGCTGATATGAACATCAAGATTGCAGAC  
TTTGGCTTCAGCAATGAATTCACCTTTGGGAACAAGCTGGACACCTTCTGTGGCAGTCCCCCTTATGCTGCCCA  
GAACTCTTCCAGGGCAAAAAATATGATGGACCCGAGGTGGATGTGTGGAGCCTAGGAGTTATCCTCTATACACTG  
GTCAGCGGATCCCTGCCTTTTGATGGACAGAACCTCAAGGAGCTGCGGGAACGGGTACTGAGGGGAAAATACCGT  
ATTCCATTCTACATGTCCACGGACTGTGAAAACCTGCTTAAGAAATTTCTCATTCTTAATCCCAGCAAGAGAGGC  
ACTTTAGAGCAAATCATGAAAGATCGATGGATGAATGTGGGTACGAAGATGATGAACTAAAGCCTTACGTGGAG  
CCACTCCCTGACTACAAGGACCCCCGGCGGACAGAGCTGATGGTGTCCATGGGTTATACACGGGAAGAGATCCAG  
GACTCGCTGGTGGGCCAGAGATACAACGAGGTGATGGCCACCTATCTGCTCCTGGGCTACAAGAGCTCCGAGCTG  
GAAGGCGACACCATCACCTGAAACCCCGGCCCTTCAGCTGATCTGACCAATAGCAGCGCCCCATCCCCATCCCAC  
AAGGTACAGCGCAGCGTGTGCGCCAATCCCAAGCAGCGGCGCTTCAGCGACCAGGCTGGTCTTGCCATTCCCACC  
TCTAATTCTTACTCTAAGAAGACTCAGAGTAACAACGCAGAAAATAAGCGGCCTGAGGAGGACCGGGAGTCAGGG  
CGGAAAGCCAGCAGCACAGCCAAGGTGCTGCCAGCCCCCTGCCCGGTCTGGAGAGGAAGAAGACCACCCCAACC  
CCCTCCACGAACAGCGTCTCTCCACCAGCACAAATCGAAGCAGGAATTCCCCACTTTTGGAGCGGGCCAGCCTC  
GGCCAGGCCTCCATCCAGAATGGCAAAGACAGCCTAACCATGCCAGGGTCCCGGGCCTCCACGGCTTCTGCTTCT  
GCCGAGTCTCTGCGGCCCCGGCCCCGCCAGCACCAGAAATCCATGTCGGCCTCCGTGCACCCCAACAAGGCCTCT  
GGGCTGCCCCCACGGAGAGTAAGTGTGAGGTGCCGCGGCCAGCACAGCCCCCAGCGTGTCCCTGTTGCCTCC  
CCATCCGCCCACAACATCAGCAGCAGTGGTGGAGCCCCAGACCGAACTAACTTCCCCCGGGGTGTGTCCAGCCGA  
AGCACCTTCCATGCTGGGCAGCTCCGACAGGTGCGGGACCAGCAGAATTTGCCCTACGGTGTGACCCAGCCTCT  
CCCTCTGGCCACAGCCAGGGCCGGCGGGGGGCTCTGGGAGCATCTTCAGCAAGTTCACCTCCAAGTTTGTACGC  
AGAAATCTGTCTTTTTCAGGTTTGCCAGAAGGAACCTGAATGAACCTGAAAGCAAAGACCGAGTGGAGACGCTCAGA  
CCTCACGTGGTGGGCAGTGGCGGCAACGACAAAAGAAAAGGAAGAATTCGGGAGGCCAAGCCCCGCTCCCTCCGC  
TTCACGTGGAGTATGAAGACCACGAGCTCCATGGAGCCCCAACGAGATGATGCGGGAGATCCGCAAGGTGCTGGAC  
GCGAACAGCTGCCAGAGCGAGCTGCATGAGAAGTACATGCTGCTGTGCATGCACGGCACGCGGGGCCACGAGGAC  
TTCGTGCAGTGGGAGATGGAGGTGTGCAAACTGCCGCGGCTCTCTCTCAACGGGGTTTCGATTTAAGCGGATATCG  
GGCACCTCCATGGCCTTCAAAAACATTGCCTCAAAAATAGCCAACGAGCTGAAGCTTTAAACAGGCTGCCAGGAGC  
GGGGGCGGCGGGGGCGGGCCAGCTGGACGGGCTGCCGGCCGCTGCGCCGCCCCACCTGGGGCGAGACTGCAGCGA  
TGGATTGGTGTGTCTCCCTGCTGGCACTTCTCCCTCCCTGGCCCTTCTCAGTTTTCTCTTACATGTTTGTGGG  
GGGTGGGAGATTGTTNTCCAGCACCCACATTACCCCTGCCAGAGATTCCCCCTTCTCCTCTCCCTACTGGA  
GGCAAAGGAAGGGGAGGGTGGATGGGGGGCAGGGCTCCCCCTCGGTACTGCGGTTGCACAGAGTATTCGCCTA  
AACCAAGAAATTTTTATTACCAAAAAG

152/5332  
**FIGURE 138**

GC GCCCAGCCGCTGAACGGCGTGGGCAGGTGGGCGGTGGGGTTCCAGGGCGCCCCGAGGACAGGGGGCCCCGACT  
TCAGGGGAACCCCAACCCCTGAGGGGCGTACATAGTAATCACGCCCCAGCCGCACCGGACCTTGCGCTCATCCCTT  
GCGTCCCCCACTTCTGCACAACTTTTTCTGACGCCCTGGCTCGTGGGGGTCTGTGGAGAGCGCTGGGGCTACCAGG  
TGGGCTCCCAACCCCGCCGACCCCTAGCCACGCTGACCTCCTGCCTCTCCTAACCTCAGTGGCGACCTCTCCAGGC  
CGGGCCGGGCTCGGCACTCGGAGCGAGTGC GGCAACCACTGTGCTCTCCGAAGGCTCCTGCGCCCCCGGGGCA  
GCTGGGCGGGGTAATGCCCTCAGTGATGGAGAAGCCGAGCGCGGGCTCTGGGATCCTGTCCCGTAGCCGGGCCAA  
GACGGTGCCCAACGGCGGACAGCCCCACTCGGAGGATGACAGCAGCGAGGAGGAGCACTCGCACGTCCCTTCTGT  
GGCTGCAGACAGCATGATCCGCGTTGGAACCAATTACCAGGCCGTAATTCCGGAGTGCAAGCCTGAGAGCCCCGC  
ACGCTACAGCAACAAGGAGCTGAAGGGGATGCTGGTGTGGTCACCCAACCACTGTGTGTGTCAGATGCCAAGCTTGA  
CAAGTACATTGCGATGGCCAAGGAGAAGCATGGCTACAACATTGAGCAGGCGCTGGGCATGCTTCTGTGGCATAA  
GCACGATGTGGAGAAGTCGCTGGCCGACCTGGCCAACCTTACCCCCATTCCCTGACGAGTGGACAGTAGAGGACAA  
GGTGCTGTTTTGAACAGGCCTTTGGCTTCCATGGCAAATGCTTCCAGCGGATCCAGCAGATGCTGCCTGACAAGTT  
GATTCCAGCCTGGTGAAATACTACTACTCTTGAAGAAGACCCGAGCCGAACTAGTGTGATGGACAGACAGGC  
C CGGCGGCTGGGGGGCCGCAAGGACAAAGAAGACAGTGATGAGCTCGAAGAGGGTCTGAGGAGGCGTGAGTGAGGG  
AGAGCCCGATCCTGCAGATCCCAAGAGAGAGCCTCTACCCCTCTCGGCCCCCTGAATGCACGCCCAGGCCCTGGGAA  
AAAGGAGGTCCAGGTGTCTCAGTACCGCCACCATCCCTTGCGAACCCGGCGTCGCCCACCCAAGGGCATGTACCT  
GAGCCCTGAAGGCCTCACGGCAGTGTGAGGAAGCCCGGACCTTGCCAACCTCACGCTCCGAGGTCTTGACTCTCA  
GCTCATCTCCCTCAAGCGCCAGGTACAGAGCATGAAGCAGACGAACAGCAGCCTGCGCCAAGCCCTGGAGGGCGG  
TATTGATCCACTACGCCCCCGGAGGCCAACACCAAGTTCAACTCCCGCTGGACCACAGATGAGCAGCTTTTGGC  
TGTTCAAGCCATCCGTAGGTATGGCAAAGACTTTGGGGCTATTGCAGAGGTGATTGGGAACAAGACTCTGACCCA  
GGTGAAGACTTTCTTTGTGAGCTACCGGCGCCGCTTCAATCTGGAGGAGGTGCTGCAGGAATGGGAGGCTGAGCA  
GGATGGGGCCCCCTGGAGCCCCAGTCCCCATGGAGGAGGCTAGGAGAGGGGCTCCATTGCCAGCCCCAGCCCTAGA  
GGAAGATGATGAGGTCCAGATTACATCGGTCTCCACGTCCGTGCCCCGATCAGTGCCCCCTGCGCCACCACCCCC  
TCCACCTCCCACCTCGCTGTCCAGCCACCCCGCTGCTGAGGCCACCTTTGCCACGGCTCCCCTCTGCTCCG  
ACAGCCACCCCCACTGCAGCAGGGCCGCTTCCCTCCAGCCCCGGCTGGCCCCCAACCAGCCCCACCGCCTCTCAT  
CCGCCCCGCTCTGGCTGCCCCCGCCACAGCGCCCGCCCTGGCCCTCAGCCCCACCCACCTGATTGGAACCCC  
TCTGGAGCCCCCAGCACCCCTCACTCTGAGCCCTGACGTCTCCACCAACCACGGGCTCCAGGACCCCTTTGCTGG  
CCATCCCCAGGCATCTCTGGTGTCACTGAGGACAGAAGGGACTAGGGCTCTGGCGGGGTCTTTGTAAGACCAGAG  
TTTCGGACAGCCAGCCCCGCCCTTTGGGTTCTGCATGTGTTCTTGGCAGCTGGGCCTGTCTCTGGGGCCATGG  
CCGGGCTCAGGGGCCTTTGAGCTGGCCTGAGGGCACTTTCGCTTCCCTGGCCGGTACTGGAATGGCTGTGTCTAG  
TCTGCTGGGGCTTGGCCTCTGGGTCTGCCCTTTGTGTGTCCGGGGTAGTGACCTTAGCGTGGAGTGGGGAGAGG  
GCAGTTGGGTGTGCTGGCTGTTCTCATTCCTCTTTCCCTTCTTTTAGCAATAAGTCTGGGGTGAGGTGGGGAGGG  
AGGCTGCAGGGGGGGAGGTGGGCAGAGGGGCCTTACAGCAGCAGAGGCTGGAAGAGAAGCTCTGTCTTCAGGGGC  
CAGCTGGGAAATGCTAAGGAGCTGAGGGTGCCACCAAGCCACCTTCCAGAACTTGAGAAATGGGGGTGGG  
A ACTTATGCAGACATGGATTTATTTTTCAACATTTTTTAAAAATTAAAAAAATAAAATCTAA

153/5332  
**FIGURE 139**

GCTGCTGACTGGCGGGCCGCCAGGCGCGTGCCTAGAGACGCCCACACGCCCCGCTGATGCGCACGCGCCCTGGGCC  
GCGCGTGC GCGCGTGGGGTTCCGGAATGAGCCGGGGAAAGCAAGGGGAAGGTTTGGGGTTGGCTCCCGGTTTCGC  
GCATGCGTGCAC TGCACAAACCATTTGGCGGGTTTTTCCGGCCACTCAGTTCTGCCACCGTCACTGAGAAGCTCA  
GCGGTAGCTTTTTGGGAAGCAGGACGTTCTCACCAGGAGAGCGTCCCTCTCGAGATTTCTGCTCCCTCCATTCAAGG  
CGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAGTATTTCTCTGTGACCGACGGCCGGGGCCTTCTGACGGTCT  
GAGGTCTTGCTTGGGCCAGTCACCTCCTGTACGCTCCGCGGAGGGGGAAGGATAAGAGGGCGAGGAGCTCATC  
GCTCGCCACCCCGTGGGCTTCTTGGGCGCAGGTTCGAGCTGGGTGGGCCGGCTCCCCGGCCCCCTGGCTTGGGCG  
ACCATGTCGCGCATCCGCCAGCAGCTGGCGGAGGAGCTGCAGATCTTCGGCCTAGACTGCGAGGAGGCTCTAATT  
GAGAAATTGGTAGAGCTTTGTGTTTCTAGTATGGACAGAATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGC  
ACCAGCACACATAAAGTTGGCCTTACCTCAGAGATCCTGAACTCTTTGAGCATGAGTTTCTGAGCAAAAGATTA  
TCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGCCATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTA  
ATTGAAGTGGAAGAAGAAGAGGAAATCCTCTTGAACCTCTACACCACACCTTCAAAGGGTTCTCAGAAGCGAGCT  
ATCTCTACCCAGAAACCCCTTAACAAAAAGGAGTGTGTCAACTCGTAGCCCCATCAGCTACTCTCACCCTCA  
AGTTTCTCTCCAAGTGCTACTCCCTCCAGAAATACAACCTCACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTC  
GGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGAGGAGCTGGAACATCAGCCTGAAGGTCTTGGGATGTCCA  
GAGGCACTAACTGGGAGCTACAAATCCATGTTTCAGAAAGCTCCCAGACATTCGAGAAGTTCTGACCTGTAAGATA  
GAAGAACTTGGCAGCGAACTCAAGGAACATTACAAGATTGAAGCTTTCACCTCTTGTCTAGCCCCAGCACAGGAG  
CCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGCAACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGA  
GACCGGGAACATTCTCGGGTGCTCAAATTCCAGTGGATTTATCTGAGCTTAAGGAATATTCTCTGTTTCTTGGA  
CAGGTTGTAATTATGGAAGGAATCAACACCACTGGTAGGAACTTGTGTCACCAAACTCTACGAGGGTGTGCCA  
CTTCCATTTTATCAGCCCACTGAAGAGGATGCAGACTTTGAGCAAAGCATGGTCTCTGGTTGCCTGTGGACCATAC  
ACCACATCTGACAGCATCACGTATGACCCCTGCTTGACCTGATTGCTGTCTATCAACCATGACCGGCCAGATGTC  
TGCATCCTGTTTGGCCCTTTCTTGATGCTAAGCATGAACAGGTGGAGAATTGTCTACTGACAAGTCCATTTGAA  
GACATTTTCAAGCAGTGTCTACGAACAATTATTGAAGGCACAAGAAGCTCCGGCTCCCACCTTGTCTTTGTCCCG  
TCATTGAGAGATGTGCACCATGAGCCTGTGTACCCCGAGCCGCTTTTCTAGCTACTCCGATCTGTCTCGAGAGGAC  
AAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGCCTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACA  
GATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGTAGTTCTTCCGGAACCTCAGACAGATTCAGCCGAATACTC  
AAGCACATCTTGACCCAGAGGAGCTACTACCCACTCTACCCGCCCAAGAAGACATGGCCATTGACTATGAGTCG  
TTCTATGTTTACGCACAGCTGCCTGTACCCAGATGTCTCATCATCCCGTCAGAGCTGAGGTACTTCGTGAAG  
GATGTCCTCGGCTGTGTCTGTGTGAACCTGGGCGCCTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCCCGACTC  
TACCTTAGGAGGCCGGCAGCGGACGGGGCAGAGAGGCAGAGCCCATGCATTGCTGTGCAGGTGCTCAGGATCTGA

GGCTTCTGTCCTCTGCTGTTCTCTGCTGTGTGGGCCCTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGA  
CAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGCCAGCCAGGGAGGGGAGCTGCAGTGACCAGGCCAGCAG  
GGAGGACTTGTGCAGCCGGGCCTGCCTCTGAGTGGTGCCTCTCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGC  
TCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCCCACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACAT  
GAATCAAACACAGAAACAACCTTTGGAGAAATTAAATTTCTGAGTGTGACTTCTGAGTTTGACCTTTCTTCTATTT  
TCTTTTATTTATTTATTTTGTGTTTTAGACGGAGTCTCGATCTGTGCCCCAGGCTGGAGTGCAGTGGTGAGATCTC  
GGCTCACTGCAAGCTCTGCCGCCGGGTTTATGCCATTCTCTGCCTCAGCCTCCTGAGTAGCTGGGA

154/5332  
**FIGURE 140**

AAGATGGCGGCTGTGGTGGAGAATGTAGTGAAGCTCCTTGGGGAGCAGTACTACAAAGATGCCATGGAGCAGTGC  
CACAATTACAATGCTCGCCTCTGTGCTGAGCGCAGCGTGCGCCTGCCCTTCTTGGACTCACAGACCGGAGTAGCC  
CAGAGCAATTGTTACATCTGGATGGAAAAGCGACACCGGGGTCCAGGATTGGCCTCCGGACAGCTGTACTCCTAC  
CCTGCCCGGCGCTGGCGGAAAAAGCGGCGAGCCCATCCCCCTGAGGATCCACGACTTTCCTTCCCATCTATTAAG  
CCAGACACAGACCAGACCCTGAAGAAGGAGGGGCTGATCTCTCAGGATGGCAGTAGTTTAGAGGCTCTGTTGCGC  
ACTGACCCCTGGAGAAGCGAGGTGCCCCGGATCCCCGAGTTGATGATGACAGCCTGGGCGAGTTTCCTGTGACC  
AACAGTCGAGCGCGAAAGCGGATCCTAGAACCAGATGACTTCTGGATGACCTCGATGATGAAGACTATGAAGAA  
GATACTCCCAAGCGTCGGGGAAAGGGGAAATCCAAGGGTAAGGGTGTGGGCAGTGCCCGTAAGAAGCTGGATGCT  
TCCATCCTGGAGGACCGGGATAAGCCCTATGCCTGTGACATTTGTGGAAAACGTTACAAGAACCGACCAGGCCTC  
AGTTACCACTATGCCCCACTCCCACTTGGCTGAGGAGGAGGGCGAGGACAAGGAAGACTCTCAACCACCCACTCCT  
GTTTCCAGAGGTCTGAGGAGCAGAAATCCAAAAGGGTCTGATGGATTGGCCTTGCCCAACAACACTACTGTGAC  
TTCTGCCTGGGGGACTCAAAGATTAACAAGAAGACGGGACAACCCGAGGAGCTGGTGTCTGTTCTGACTGTGGC  
CGCTCAGGGCATCCATCTTGCTCCAATTTACCCCCGTGATGATGGCGGCAGTGAAGACATACCGCTGGCAGTGC  
ATCGAGTGCAAATGTTGCAATATCTGCGGCACCTCCGAGAATGACGACCAGTTGCTCTTCTGTGATGACTGCGAT  
CGTGGCTACCACATGTACTGTCTCACCCCGTCCATGTCTGAGCCCCCTGAAGGAAGTTGGAGCTGCCACCTGTGT  
CTGGACCTGTTGAAAGAGAAAGCTTCCATCTACCAGAACCAGAACTCCTCTTGGATGTGGCCACCCACCTGCTCCC  
CGACATATCTAAGGCTGTTTCTCTCCTCCACTTCATATTTTCATACCCATCTTTCCCTTCTTCTCCTCTCCTTCA  
CAAATCCAGAGAACCTTGGGGTGGTTGTGCGCAGCCTGCCTTTGGCAGCTGCAAGCTGAGGTGGCAGCTCTGACCA  
CCTCTGGCCCCAGGCCCTCAGGGAGAAAGGAGCAACACACTGCCCTAGGCGTGCCTGTGGCCCAGTTTCTCTCT  
GCTCTCCATTAAGTGCATTCACTCTGCTTGCTTGGGCCAGCCCCCTGGTGATCACAGGGTTCAAACAGTGTCTC  
CCTAGAAAGAGTGGGAGAGCAGCTCACTTCTGTGTTCTGCCTCCCCTCTGGTCTCCAGAGTTTCTCTGTCTC  
TAGAGGCAAGCCAGGCCAGGGAGCTGGGAGCGAGCAAGCTGAGGCCACGTCCACAAGGAGCTTTTCATGCCCCCTG  
TGCCGCATAGCCTCACCTCTTTCTCCAGAGTGGCTCTCTGCGGCCCTGTGTTCTCTGCTACAGAGTGTCTTTTC  
TGGAGTCAGGATGTTCTCGGTACCCCTCCTGGTTCTGCCCTGTCCATTCCACCCACCCAGGGGGAACAGTAG  
CTTCACCTTGTTATTCCCATTGCTCTCCTGGCTCACTCTTACGGTCGGTCTCCAGTGAAGCATTCCCCACC  
CTTGGAATTTCTCATCTTCTGCCTCCCTTCCTACTCCTTTTGGTTTTGTGGGGAGAGGGGAAGGATCAGGGGGCC  
AGGCCAGCAGCTCGGGGGCCACAAGGAGATGGATAATGTGCCTGTTTTTTAACACAACAAAAAAGCCTACCTCCA  
AAATCCCCTTTTTGTTCTTCTGGACCTGGGCATTACAGCCTCTGCTCTTAAGTGAATTGGGAGCCTCTGCCACC  
TGCCCCGTGTATCCTGGCTCTCAGCTCATGGGGAAGCCACATAGACATCCCTTTCTTCCCTTGACGCTCGCTAG  
CAGCTGGTAAGGTCTTACACCCTGATTCTCAAGTTTTCTGCTTAGTGGCACTGACATTAAGTAGTGGGGGGAC  
AGTCCATGCCAGGACACCCTGGAGTAGCCTTCCCCCTTGGCCGTGGGCAGGCCCTAACTCACTGTGCTTTGGAG  
TTGAGGTGTCTTTTCTTTTCTTTTCTTTAGTTCCTGTATTCTAAACATTAGTAAAAATAAATGTTTTTACACAGA



155/5332  
**FIGURE 141**

GGGCTCGGGAGCCGGGCTGGGGGCAGGGGCTGGAGCCGCGGGACCAGCGCCTGAGGTGCCCCGGAGAGGCCATGG  
AGCTGAGCAGCAAGAAGAAGCTTCACGCCCTGTCCCTGGCCGAGAAGATCCAGGTGCTGGAACCTCTGGATGAGT  
CCAAGATGTCCAGTCGGAGGTGGCCCCGGCGCTTCCAGGTTTCCAGCCCCAGATCTCGCGCATCTGCAAGAATA  
AGGAGAAGCTGCTGGCGGACTGGTGACGCGGCACAGCCAACCGAGAGCGCAAGCGCAAGCGGGAGTCCAAGTACA  
GCGGGATCGACGAGGCTCTGCTCTGCTGGTACCACATTGCCCGGGCCAAGGCCTGGGACGTGACGGGGCCCATGC  
TGCTCCACAAAGCCAAGGAGCTGGCCGATATCATGGGCCAGGACTTCGTGCCAGCATCGGCTGGCTGGTCCGCT  
GGAAACGCCGAAACAACGTGCGCTTTGGGGCCCCGCCATGTTCTTGCGCCTTCATTCCCCCCTGAGCCACCTCCCC  
CGGGGCTCACATCCCAGGCTCAGCTGCCTCTTCCCTAAAAGACTTCTCTCCAGAGGACGTGTTTGGCTGTGCTG  
AATTGCCCTTGCTGTATCGGGCAGTGCCCGGCAGCTTTGGTGATGTGATCAAGTACAGGTGCTGCTGTGTGCCA  
ACAGCAGGGGCACCGAGAAGCGGCGGGTACTGCTGGGTGGGCTCCAGGCTGCCCGAGATGCTTCTTTGGGATCC  
GCAGTGAGGCTCTGCCTGCCTCTACCAACCGGACCTGGGCATCCCCTGGTTAGAGTGGTTGGCACAGTTTGACC  
GGGACATGGGACAGCAGGGCCGACAGGTGGCTTTGCTGCTGGCTGCCCGAGTGGTGGAGGAGCTGGCAGGCCTGC  
CTGGGCTCTACCACGTGAAGCTCTTGCTCTGGCCGCTCTAGCACACGCCTCCCCTGCCAGCTCAGTGGTCC  
GGGCCTTTAAGGCCCATACCGACACCGGCTGTGGGCAAAGTGGCTGCCATCCAAAGCGAGAGGGATGGCACCT  
CGCTGGCCGAGGCCGGGGCAGGCATCACCGTGCTGGACGCCCTGCACGTGGCGTCTGCCGCTGGGCCAAGGTGC  
CTCCTCAGCTCATTTTACAGCAGCTTCATTCAAGAAGGGCTGGCTCCCGGCAAAACGCCCCCGTCTCGCACAAAA  
CCTCTGAGATGCCACCAGTCCCCGGCGGGCTGAGCCTGGAGGAGTTTTCCCGCTTTGTGGACCTGGAGGGTGAGG  
AGCCAAGGTCTGGAGTATGTAAGGAGGAGATAGGCACTGAAGACGAGAAGGGGGACAGAGAGGGTGCCTTTGAGC  
CCCTGCCCACCAAAGCTGATGCCCTCCGGGCCCTGGGCACCTTGAGGAGGTGGTTTGAATGCAACAGCACTTCTC  
CTGAGCTATTGAAAAATTCTACGACTGTGAGGAGGAGGTGGAGCGGCTTTGCTGCCTATGA

156/5332  
**FIGURE 142A**

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCGTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT  
AGTGTGGTTAAGTTGTTGCTTGGGAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA  
AACAGACAAAATAACAAAACAAAATTGTTTTGCTTTGCTACAAAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA  
ACAGGTGACACAGAGTCACCAAGTTTTCCGAGAACCAAAGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA  
ATGTCTTTTACCAGCTTCCCTCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTTGTTTGGGGTGTGGGTGTT  
ATCAAGTGAATTAGTCACCTGAAAGATGGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCCCT  
TAGCAACTTAGGTGGTTGATTTGAACTGTGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG  
TAAATGCCTATATTGTGGGCTTTTAACGTATTTAAGGGACCACTTAAGACGAGATTAGATGGGCTCTTCTGGATT  
TGTTCTCATTTGTACAGGTGTCTTGTGATTGAAAATCATGAGCGAAGTGAAATTGCATTGAATTTCAAGGGAA  
TTTAGTATGTAAATCGTGCTTAGAAACACATCTGTTGTCTTTTCTGTGTTTGGTCGATATTAATAATGGCAAAA  
TTTTTGCTATCTAGTATCTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTTGTGGTCACTGTAAATTA  
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTTGAATGT  
TTGTGCTTTTTTAAATGAGCCAAGACTAGAGGGGAACTATCACCTAAAAATCAGTTTGGAAAACAAGACCTAAAAA  
GGGAAGGGGATGGGGATTGTGGGGAGAGAGTGGGCGAGGTGCCTTTACTACATGTGTGATCTGAAAACCTTGCTT  
GGTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCTTCTTCCCTTTAAGTT  
TCACTTGAAATTTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTCTGTCTTCTGGGTTCATTTTTTAAAT  
GTTTAAAAATATGTTGACATGGTAGTTTCACTTCTTAACCAATGACTTGGGGATGATGCAACAATTACTGTGCTT  
GGGATTTAGAGTGTATTAGTCACGCATGTATGGGGAAGTAGTCTCGGGTATGCTGTTGTGAAATTGAACTGTAA  
AAGTAGATGGTTGAAAGTACTGGTATGTTGCTCTGTATGGTAAGAACTAATCTGTTACGTCATGTACATAATTA  
CTAATCACTTTTCTTCCCTTTTACAGCACAAATAAAGTTTGAGTTCTAACTCATTAGAATTGTTGTATTGCTAT  
GTTACATTTCTCGACCCCTATCACATTGCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTTAGGTCT  
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAAGTGGTATTATCCCAA  
GTGGTCTGCAGACTGCTGAGTGGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAAATGTGA  
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTAAACATTACCTG  
GTTAGAGTTCTAAGTGSTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAACAGAAATGGACACATAAT  
ATGCATATTCCATAGTCTTTGGGAGGCTGGAATGTGCTTGGGATTTGGGTCTAAGTGTATGCGTAATTCTTACCT  
CACTAAAGAATTTGCCTTGTTTTTTCTTTTTGGTGAGTGAATAAACGCTCTGGGCTTCCCTGTGTGCGTGCTAC  
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTGGCTTGCAAA  
CTGCCTCTGTCTCTCTGGGTGGGACTGTTCTGTCTTGCAGTCTGTTCTGTGTTACCTCTTGGGGTGTAAAGTTT  
TGCTTACAGGAGACAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT  
TTCAAAGGGAGCAGCAAGGGAGGCTTGTCTACTCACCTGGGCCTGTTTGCCTGAGAAGGGGAGATAAGGGCTGA  
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGGATCATGACCTGAAGGATTCTTTCTTCCCATGAGCT  
GCAGGGCTGGTTGCCGTCTTGCAACTGTGTCTTATTTGCCTGTGCCGTTATATCTTGGTGACCCCTCCACGTGT  
ACACTACTGACAAACGGGTGGAGTGCTGGGGAGAAGTCACTGTGCCGCCCACCTAGTAAACCTTCTGTCTGTGCT  
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCGAATCCAGGGTCTCTTTCTGCTTGCAACTCCTTTCCCTG  
GATGCCCCAGAAACAATCCAGGCCTCCTTTCTATCTTACCCCTTTGCTTTGCTTTTTACCCAGCACCTCTATA  
ACCGCCTTCTCTTCTTTTTCAGAACTCCTTGTTTCTCATCCTGTTTTTTATGATTACAAAACCTTTGCTTCCACCC  
TGGAAGATAACTGCTATAGATGCCGTGATGTAAATGGTGCTGTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA  
TTCACGGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTTGATACAGGAGCAGAGAGGTGAG  
GCCGACTGCTGAAGACAGCTCGCCACCCTCCTTGCCCTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT  
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATTGCTAATCCGTTTG  
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGGTAATATAATAGAATTCAGTGAG  
TGGGCATGGCTGATCTTGTGCAATTAAGGTTATGGGGCATAAGAATAGCAAAAGTTGAACTTCTTTTAAAAAG  
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCAGTATGCCAGGTTGGCAGCACTGAGAACCAGGAGAA  
CGGCTGTTGTTACAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT  
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCCATGTGCAGTGAGACCTCTGGAGGAAGTGTCATCCTCTGGCTT  
TGTGTGGTACTCATTATGGTGCAGTGCGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT  
TAAATGTTTCGTATTTAACAAAACATACTGACACTGTTTGGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

157/5332

[illegible]

158/5332  
FIGURE 142C

TTTTTCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACCTCTTAGTATCAT  
TGGGAAGGCCACATTTGCCACTTATGATTGTAAACCTTATCCTCCATTTTCTCTGTTATTGTTGGTGCAAAAAGC  
ACCTATTATAACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAAATACTGATAAGTCCA  
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT  
CTCCATTTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTTGGTTTTTTTCGT  
TCCAGGTCAGTCAATATTAACCTTCTTATAATTTTCTTTTTTTCTTTATGTGTGTGTGTGTGTGTATTTTTTTTT  
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG  
ATTTTACTGCACCGGTCACCTGAGTAGTGTACATTGTACCCAATATGTGGTTTTTATACCTTGCCCCCTCTTA  
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTTGTACCCATAAGTTAGCTCTCAC  
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCCCTGAGTTGCTTCACTTAGAATAATATCCTCCAGCTCCA  
TCCAAAATTGCTGCAAAAAAAAAAAAAACCACAAACATTATTTTGTTCCTTTTTTATTGCTAAGTCATATTCCATG  
GTGTAGAGATACCACATTTTATTTATCCACTCACTGGTTGATGGGTTGGTTCCACATCTTTGCAATTGTGACTTG  
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA  
TCAAATGGTTCTTAACATTTTCTCTCTGGATCTATTTCTGGAAATTTTAGGCTCCAGTTTTTGTGTTGTTGTTA  
ATAAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAATCTGGTAAATGGAGGCTAGAACACT  
CCTGTAAGGCAAGAATATTCTCTCTGTTGGAACCTCAAATACACAGAAGTGGGTAAATCTCAATCTTAATCTTTGA  
TTCAGGACACAACATGGCTCTCTTTTACTTGCTTTCTTTAATTGTTTTTAATAATGTGGTAAGCATTCTGAAT  
CTCCTATCCAATACAAAACTAGGACAATACAGACAGTAACCTCTATGGTTACAATGAACACTCCTCTCCACTTA  
AATTAATTTTACACTGATGAAATTGAAATAGCAAAATTTTAATGACTAAATACTGTCTTTGATTTTTTGTTC  
AGGTCTGTCAATATTAACCTTCTTATAATTTTCTTTTTTTTTCTTTATGTGTGTGTGTGTGTGTATATATATAT  
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATAGATTCTACAGTAGTGAAGTCTGAG  
ATTTTACTACACCTTCCACTTATGTGGTCCCACACCACCGCCTCCCTGCCGCTCCTGCCACCCCTAGGCCA  
AGGTAATAATCATCCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTCATATAATTTGCAAAAAGAACTGA  
TCTAAATGTGTTTTTCAGAGTATATATTTATATTTTAGCTGTTCTTAGAGAAAATTTATTATTTTGCATGTAATC  
TTATGGAACATTCTCATTAAATACCATGGTAAGATTGAGCCCTTGCCAGGGGATAGTTTCATTTAGTTTGTTC  
TGGATAGAGCTCATCATGTGACTATACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT  
CAGCCTCTCAACAACACTGTTTCTCAGTGTCTTGTAGAAGTGATATGTGGGTGTTTTCTCCTTACACAGAGTTG  
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCACCCTCCAGAGGGGTAACCAGTGTTACCAGTTTGCTG  
TGTTTCTGCTACACCTCGCCTTATTCACCTCCATTTGTATCTGAAAAACGTGTTGCATGGTTTCTTTTCTATAG  
AAGTGGTAAATGCTATTGTGTCCTGTACATTATTGATTACTTTTTTTTCAATTAACAGTAGGGAGATGCCTGGGA  
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTTAAT  
GGAAATTTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTGTG  
CACAATGCATGAGTGTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTGATAGGGCGTGAGTCCGACATT  
TTTCTCCATTCTGCCCTGTTGCCCTCCAGAGTGGGTGTCAGCTTTGCATACCTAAGTATGAGAGTATCTGTTGT  
TCATATCCTCTACGACGCTCCATATATGAAACTTAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA  
GTGACCTACTAAGACTGTAATTGGGTACAGTAGATTCTTGTCTGTGTGTGAATTTAGCATTTCATGGGCTTAAT  
GCTGACAAGGCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGTCAAGGTATAATTTTTTAAATTGCTTT  
TGTCATGTGTCTGCTGGTGATGCCCAACCCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCTCTGCTTAT  
GCCTGCATTGCAGCAACTGTCTGAAGAGACCAAAATTATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT  
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGATGAATTTATAAATCACTGGTCTTGTAATTTAAATTTCA  
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTTCTCTATAATCCCGGACCCCTAAGATAACTACTAATGA  
CAACTTCATTTATATTCCTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATTCTCTGCCCTA  
AAATGGAATCATACAAGGTGTACTGTTATTTTTATGGCTCTATAACATGTCATATTGTACGTGTTGGTATGGTCA  
TTTTAACCATTTTCTAGTGATGGCTTTGAGGTTATTTGCAGTTTCTAGCCATCTCAAAGTGTGCTGCGGGGAT  
CTCTTTTGCATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGCAGTGTCCAGAGGAGGCAGCATCTGTAGGTGT  
CTTACCTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC  
AAAATAGAATAATGTTGGTCTCTCCTCATGTGCCGTGGAACCTGGGGTAAACTGCGTAGTGGCTGCAGCTGCC  
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCTGCAGGCCCCAGAGT

159/5332  
**FIGURE 142D**

CTAATTCCTGGTATTCTTTCCCTACACAGATTAAATAAACCAAAAACAACTATTCTAGGAAAGCGTCTGTGAC  
ATTTGTAAAAAGTGGTATTTAATGATCTTTTATTCACCTGTCTGTTTAGTTTGTTGAAATCTTAAGTGGCATCCT  
GGTCTGGGAAGGAGTGCTGTCTGCGCCTGCCCTCCGCTGGGCACAGCGTGGCTGCTTCAGGGGCTAAGCACACAC  
TTTCTGTCTTTCTAAAGGGCCGCCACATGCCAGGAGCTCAGGTGTGAGCCCCGGCTCTGGCTCTTACCTCATAGGGT  
CACTCATAGGGGCACAGGGAGCAGAACATTGTACACAGCGAGGCACCACCCGGCTTGGCATCTGCCTCGGTGGAC  
TTACTACCTCTAGAAGGAAATACCTGAGTTCCTCTGGCCTCAGCTCCTAGAGTGACTGGTGTGCTGTCCCTGTTA  
CTCTTCTGTCAAGGTGACAACTGTGTGACCCATCATCTGTGTGTCAAAGCAAGGCCCTGCCTGGGCCTCTGCTCC  
TGTGCTGACCCCAAAGGCAAATGCTTTGCTAGTTTCCTTCCAGTTAATTTACCTATGAATAGATGTGTGAAAAC  
TGTTCAAAGCCATACCTGCACATGTTTGAACCTCAAACCCTGTGGGTGATTCAAGTGGCATCTTTCTCTAACCCCC  
AGCCTCCCTTCCCACAGAGGCCACCGTCATGGCCAGTTGCTGCAGTTTCTTTCCAGAGAACCTGTGTATGTGTAA  
AGCTGTACAGGCGTGGGTACACCACACAGCCTGTCTTGCACTGTGGACTGTTGAGTTACTAGTACATCTAGGTAA  
GCACCGCATATCTGTATTCTGTCTGCCTTGGTCTTTTCAACATCTGTGTGGTAGCCGTGTTTGAATTACCCATT  
CCCTTTTGGGGAACCATTAAAGTTGTTTCAGCAATTTTACTGTAGATAAGGCTATACCGCATATCTGTGTACAT  
GGGTTTTTATGTACATGGGCAAGTATATCTGTGAGAGAAAAGTTTCCCTCAGGAGGAATTCTGGGCACAGCATGTG  
TAAATTTCTAAATATGATGGACACCCCCAGCTTCCACCTCAAGGAGGTTGGTCCCATTGACATTTCCCCACACCT  
TCACCCAGGCTGTGCCCTTAACTTGGTTATTTGTCAATGTGAGAAGTGGAATAGTATTTAATTGTAGTTTGG  
ATTTGTATTTCTATTGGGTTGTATACTTACTGATTAATAATAAGAGCTCTTTACATATTAAGGAAATTAACCCTT  
TTCAAATACATTCCTATTTCTACTAATCTTTAAGTTTTATTGTAATATTTTGCTCTTTAGTTTATATATATATG  
TATATATATATATATATGTATATATATATATATACATATATATATACATATATATATA

160/5332  
**FIGURE 143**

ATGGTCCGCTGCGTCCGACTGGTGGAAGCAGGATCTGTGGTGAGATACCTCAGCACAAAGCATATGCAGGCCTGTG  
GTAGACGCCGGAAGTAGGGCCCTTTGTCTCCAAGAATGGGCAGACTCTCAACAGGTGAAAGAAAAACAGTACTCC  
AGCAGAGATGTCCAGAGAGCAGCCGCTCTCAACATCTACCGTATCCCACCGTCTAGCAGGAAGCCCGCTCTCTGT  
CCAACTCCGCGGGACCGACTAGAGTACGACGAGGACCGACTAGAGCACATCGCCTACGTGCGCGCCCGGGAGCTG  
CACACTCTTGAAGTGACCGGCCTGGAGACGGTTGCCCAGAGCAAGCCACTACTTGCCTTTCCTCCTGTGGCTTCC  
CCAGACAACACTCTTGACTCTCCCTTTCCTTTGAAGGCCCATGTAGCATCCCTGGAGGGCCTCATCCCTGAAGAT  
AAGGTTGTGCTTCTGGCAGGTTCTCCCTTACAGAATGAAGCCACCCTGGGTCAGTGTGGGGTGGAAGCCCTGACA  
ACCCTGGAAGTGGTTGGCCGCAGGCTAGGAGTGGAAGAGTGCCAGGAACGGAGCGCGTTTGCTGCACACCATTT  
GCCATTGGTGATCGAGCACACTCCCAGCTCCAGGATTATGGGAAGACCTTTTGGGGCTGGAACAGCGCGCAGT  
GGCCACCGCCCGCGGGTCTCCAGCCCCCAGGAGCGCGGCCTCCTCCCGGACTCTCTCCGATGCGGTCCTGCCCTG  
GGGACACGGCAGGAAGAAGGGACCTGGCTGGGGGACGTGGCCCCGGCGCGGGGGCAGGGGAGGCAGCGCGGGACT  
CCCAGCGGCCCCCTGCGCGGGCCTTCTGAACAGCAGCAGCAGCTGGGAATGCAAAATGACATCCCTATGTTGTCC  
CTGCCCTTTGTCCAGGGTGAGAGGGACCCTTCCTCGGTGGAGTTGACACAGACCTGCCTCTCTCTCATGTCTGTA  
CTGGGACCCACAGTGCTACAGCTGGGCTGCCACAGCCAGGCCTTTCGGGAGGATCCACCAATAGGCTTCAGGGCC  
CAGGGCCAAGGAGGGCGGCTCACGGCCCTCGCGTATCCCTGCGCGGCGCTCGCGAGCCGCCCTCCCCGGCGTT  
TGTCCCTTGA

161/5332  
**FIGURE 144**

AGCCCCCCCATCCCCGCCCTCTCCCGCCCCTCCCTTGTCGCCCGCCCCTTCCCGCCCCAACTCAGGTTCTGCCCC  
ACCCCGCCCCAATTACGTCCTGCTCCGCCCCGACGTAGGCCCCGCCCTGGCCCCCGGGCCCCCGCCCCCGTCTGA  
CGCAGGCCCCGCCCCCTCTCCGCCCCGCCCCGGCTCGGGCGGCCGGAGACC CGGAGCTAAGGCGCCCCGAACCCG  
CGGCGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTTCCGTTTCGAGCTCATCCCGGAGC  
CCCCAGAGGGCGGCCCTGCCCGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA  
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA  
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCGTGACAGAGG  
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCCTGGG  
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCTGGTCAACGACTGCAGCCTCATCCACAACAATGTCTGCATGG  
CCGCCGTGTTCTGTGGACCGAGCTGGCGAGTGGAAAGCTTGGGGGCCCTGGACTACATGTATTTCGGCCCCAGGGCAACG  
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGGAGTTGGCTGACAGCAGTGGCA  
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTGGGAAGTCTTCAATGGGCCCC  
TACCTCGGGCAGCAGCCCTACGCAACCCCTGGGAAGATCCCCAAAACGCTGGTGCCCCATTACTGTGAGCTGGTGG  
GAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCCGCTTCTTGCAAGCTGCCGGGCACCTGGTGGCTTCATGAGCA  
ACCGCTTTGTAGAAACCAACCTCTTCTGGAGGAGATTGAGATCAAAGAGCCAGCCGAGAAGCAAAAATCTTCC  
AGGAGCTGAGCAAGAGCCTGGACGCATTCCCTGAGGATTTCTGTGCGGCACAAGGTGCTGCCCCAGCTGCTGACCG  
CCTTCGAGTTCGGCAATGCTGGGGCCGTTGTCTCACGCCCCCTTCAAGGTGGGCAAGTTCTGAGCGCTGAGG  
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCC  
TGCAGCAGATGGAGCAGTTTATCCAGTACCTTGACGAGCCAACAGTCAACACCCAGATCTTCCCCACGTCGTAC  
ATGGCTTCTTGACACCAACCCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAAGCTGA  
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC  
GCTGCAACACCACAGTCTGCCTGGGCAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGTCCTTACCT  
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGCACCGTCCCGGGTTCGGGTGTCTGGGCTTTGCTGCCACCC  
ACAACCTCTACTCAATGAACGACTGTGCCCAGAAGATCCTGCCTGTGCTCTGCGGTCTCACTGTAGATCCTGAGA  
AATCCGTGCGAGACCAGGCCTTCAAGGCCATTTCGGAGCTTCTGTCCAAATTGGAGTCTGTGTGCGGAGGACCCGA  
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGCAGCTAGCTGGG  
CAGGCTGGGCCGTGACCGGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTTCGCACCCAACCACTGCCCCAACAG  
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG  
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCGGAGTCTGTGCTGGCCC  
AGCAGGACGACTGGAGCACCGGGGGCCAAGTGAGCCGTGCTAGTCAGGTGAGCAACTCCGACCACAAAATCCTCCA  
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC  
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCAGAGTCCAGCGACAAGGGCG  
ACCCCTTCGCTACCTGTCTGCACGTCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGAGGACAACCTGGGAGG  
GCCTCGAGACTGACAGTCGACAGGTCAAGGCTGAGCTGGCCCGGAAGAAGCGCAGGAGCGGCGGGGAGATGG  
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG  
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTTATTGTACAAACCATGTGAGCCCCGGCCGGC  
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATCTATTTAC

162/5332  
**FIGURE 145**

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCTGACTACT  
CCTGCCACTGCAACCCCGGCTACCGGTACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCGAGGCAG  
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACCGGCGGCTCCTACAATTGCCACTGCAACCGCGGCTACC  
GCCTGCACGTGGGCGCCGGGGGGCGCTCGTGCGTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACG  
GCGGCTTCTGCATCAACTTTCCCGGTCACTACAAGTGCAACTGCTACCCCGGCTACCGGCTCAAAGCCTCCCCGGC  
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAGCCCG  
GGAGCTTCAAGTGCATCGCCTGTGAGCCTGGCTACCGCAGCCAGGGGGCGGGGCTGTGCGGACGTGAACGAGT  
GCGCCGAGGGCAGCCCTGCTCGCCTGGCTGGTGCGAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCAGG  
GCTACGCGCCCGCGCCCGACGGCCGAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG  
GCATCTGCAGCAACACGCCAGGATCTTTCCAGTGTGAGTGCCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC  
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT  
ACAGATGTCTTTGCCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG  
ACCCGAGCCTGTGCCTTCCCATGGGGCCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATGAGGGCT  
TCACTCCCACCCAGGACCAGCACGGTTGTGAGGAGGTGGAGCAGCCCCACCACAAGAAGGAGTGCTACCTGAACT  
TCGATGACACAGTGTTCTGCGACAGCGTATTGGCCACCAACGTGACCCAGCAGGAGTGCTGCTGCTCTCTGGGGG  
CCGGCTGGGGCGACCACTGCGAAATCTACCCCTGCCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCAG  
ACGGAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGACGAGTGCA  
TGTTGTTTCGGGTCGGAGATTGCAAGGAGGGCAAGTGCGTGAACACGCGAGCCTGGCTACGAGTGCTACTGCAAGC  
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCCTGGACGAGTCCAAGTGCCGGA  
ACGGAGTGTTGAGAACACGCGCGGGCGGCTACCGCTGTGCTGACGCCCCCTGCCGAGTACAGTCCCCGCGCAGC  
GCCAGTGCCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG  
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTGCCCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC  
TCCCCGAGAGCCCGGCCGAGCGTGCCCCGAGCGGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT  
GCGCTGGCCCCCTGGCCGGGCCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCC  
AATGCCGACCGTGCCCGCCGCGCGGGGTCCCATTCGCCGACATCGCAGAGCGAGAGCAATTCTTCTGGG  
ACACAAGCCCCCTGCTGTTGGGAAGCCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTAGACGAGTGTGCT  
GCGTGAGTGGCCGCTGCGTGCCGCGGCCGGGCGGCGCGGTGTGCGAGTGTCCCGGCGGCTTCAGCTCGACGCCT  
CCCGCGCCCGCTGCGTGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT  
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCCGCACGGGGCCTGCG  
TTCCCCAGCGCCCGCTGACGCGCGCGACGCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCGCG  
AGCTCGGCCTCACTTCTGCCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCCTCCCGGCGCC  
TTGAGACCCGAGGCGCCCTACCGGCCCCCTCCCCGGTTAGCGGGCGGTTGTAAGGTCTCCGGCGGGCGCTGCC  
TGCTTCTCTCCAGAGGGTGTTTCTAGAACTGATAAATCAGATCGTGCTCTTTACCCTTGGCTTTCG



163/5332  
**FIGURE 146**

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCGCCACCTCCAGGCCACTATGGCGCCTGGGCTGCCCAGGAGCTTC  
AGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTACA  
CCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCCA  
TGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCAC  
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCTATGGCCCACCCACCAATTTGGGGCCCCCGCCTCCTC  
TCCGTGTGGGTGAGCCAGTGGCACTGTGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTGA  
TGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAGC  
GGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCAC  
AAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGCCCAGTGGGCCCCA  
CTCCTACAGTTTTGCCCATGGGAGCCCCGTGTTCCCCGGCTCGTGGTCCCCACCGCCCCCTGGAGATGAGAACA  
GAGAGATGGATGACCCCTCTGTGGGCCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGCC  
GCCAGGAAGAGATGAATTTCTCAGCAGGAGGAAGAGGAAATGGAAACAGATGCTCGCTCGTCCCTGGGCCAGTCAG  
CGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG  
AGAAAAAGCCCCAGCGGGTGCAGGGGGTGTCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCCC  
GTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCACT  
TTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAGGAGCCAG  
AGAACTTGACAACTGGAGAATCTGCAGCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAAGGACAGTGATG  
ATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATGA  
ACCGCTTCACTGTGGCTGAATCAAGCAGCTGGTGGCTCGGCCCGATGTCTGAGAGATGCACGATGTGACAGCGC  
AGGACCCTAAGCTCTTGGTTCACTCAAGGCCACTCGGAATCTGTGCCTGTGCCACGCCACTGGTGTTTTAAGC  
GCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGCA  
TCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTTC  
GGCCTAAGATGGGCAAAATTGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCAA  
AGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGAG  
ATCTGTCTGATGAGCTAAGGATTTCTTGGGGATGCCAGTAGGACCAAATGCCACAAGGTCCCTCCCCCATGGC  
TGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAATCGCCCATCC  
CTGAGAGCTGTTCTTTGGGTACCATGTGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTCT  
ATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCTT  
GGGGGGAATGGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGAAGACAAACCAG  
ATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGCTGGAA  
TGGAGACCCCTGAATCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAGC  
TCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGACA  
TGTCACGTTTATGAGCCGGAAGGGCCCCGGCTCCTGAGCTGCAAGGTGTGAAGTGGCGCTGGCGCCTGAAGAGT  
TGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAGG  
AGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAACGGAAAGCTCAGCCCCAGGACA  
GCCGTGGGGGCGAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTACG  
TCTGGATGCCTGGGCTTACACAAGAACCACCTCTCCCGCAGTTCCCAAGGACTTGTCATTTTCATGTTCTTATTT  
TAGACCTGTTTGTAAATAAAGCTGTTTCCCAAGGAAGAGATG

164/5332  
**FIGURE 147**

CGCCGCCGCCGCCGCCGGGGGAAGCCTGGGAGCCAGATCGGCGTCGCCTCGGCCTCCGTAACCCCGCCTAGCCGG  
GCCATGGCGGAACGCGGAGGGGCGGGCGGTGGTCCCGGAGGCGCCGGGGGCGGCAGCGGCCAGCGGGGATCCGGG  
GTCGCCCAGTCCCCTCAGCAGCCGCCGCCGAGCAGCAGCAGCAGCAGCCGCCGAGCAGCCGACGCCCCCAAG  
CTGGCCCAGGCCACCTCGTCGTCTCTCGTCCACCTCGGCGGCGGCTGCCTCCTCCTCGTCCTCGTCTACCTCCACC  
TCCATGGCCGTGGCGGTGGCCTCGGGCTCCGCGCCTCCCGGTGGCCCGGGAGCCAGGCCGCACCCCGCCCCGGT  
GCAGATGAACCTGTACGCCACCTGGGAGGTGGACCGGAGCTCGTCCAGCTGCGTGCCTAGGGCTATTGAGCTTGAC  
CCTGAAGAAACTCGTCATGCTAAAAGAAATGGACAAAGATCTTAAGTCAAGTGGTGCATCGCTGTGAAGCTGCAGGG  
TTCAAAAAGAATTCTTCGCTCCAACGAGATCGTCCTTCCAGCTAGTGGACTGGTGGAAACAGAGCTCCAATTAAC  
CTTCTCCCTTCAGTACCCTCATTTCCTTAAGCGAGATGCCAACAAGCTGCAGATCATGCTGCAAAGGAGAAAACG  
TTACAAGAATCGGACCATCTTGGGCTATAAGACCTTGGCCGTGGGACTCATCAACATGGCAGAGGTGATGCAGCA  
TCCTAATGAAGGCGCACTGGTGCTTGGCCTACACAGCAACGTGAAGGATGTCTCTGTGCCTGTGGCAGAAATAAA  
GATCTACTCCCTGTCCAGCCAACCCATTGACCATGAAGGAATCAAAT

165/5332  
**FIGURE 148**

GGAGTTTCGCCGCCGCAGTCTTCGCCACCAATGCCGCCCTACACCGTGGTCTATTTCCCAGTTTCGAGGCCGCTGCC  
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGG  
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCCAGGACGGAGACCTCACCTGTACCAGT  
CCAATACCATCCTGCGTCACCTGGGCCGCACCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG  
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA  
AGGATGACTATGTGAAGGCACTGCCC GGCAACTGAAGCCTTTTGAGACCCTGCTGTCCCAGAACCAGGGAGGCA  
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC  
TAGCCCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGTGCCCCGGCCCAAGCTCA  
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGTTGGGGGGAC  
TCTGAGCGGGAGGCAGAGTTTGCCTTCCTTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

166/5332  
**FIGURE 149**

GGGTGACGTCTTTCCTGCGCGCCACCTAGCGTCTCTATCGCGCCAGTTCCTCAGCCTCAGTGCTATGAAGGTGAC  
AGCGTGAGGTGACCCATCTGGCCCGCCGCGATGCTGGCAACACGGCGGCTGCTCGGCTGGTCGTTCCCGCGCGG  
GTATCTGTGCGTTTTAGCGGCGACACGACAGCACCCAAAGAAAACCTCATTTGGCTCGCTGAAGGATGAAGACCGG  
ATTTTCACCAACCTGTACGGCCGCCATGACTGGAGGCTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACA  
AAGGAGATCCTGCTGAAGGGGGCCGACTGGATCCTGGGCGAGATCAAGACATCGGGTTTGAGGGGCCGTGGAGGC  
GCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATGAATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTG  
AACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGACCGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAA  
GGCTGCCTGGTGGGGGGCCGGGCCATGGGCGCCCGCGCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAG  
GCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTATGAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGC  
TATGATTTTGACGTGTTTGTGGTGCGCGGGGCTGGGGCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCC  
ATTGAGGGCAAGCAGGGCAAGCCCCGCCTGAAGCCCCCTTCCCCGAGACGTGGGAGTGTTTGGCTGCCCCACA  
ACTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCCACAATCTGCCGCCGTGGAGGTACCTGGTTTGTCTGGCTTT  
GGCAGAGAACGCAACTCAGGCACCAAACTATTCAACATCTCTGGCCATGTCAACCACCCTTGCACTGTGGAGGAG  
GAGATGTCTGTGCCCTTGAAAGAACTGATTGAGAAGCATGCTGGGGGTGTACGGGGCGGCTGGGACAACCTCCTT  
GCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATCCCCAAGTCTGTGTGTGAGACGGTGCTGATGGACTTCGAT  
GCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCTGCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAA  
GCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAGAGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGAC  
TGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGGGATGCCCCGCCGCGGAGATCGACTCCCTGTGGGAGATC  
AGCAAGCAGATAGAAGGCCATACGATTTGTGCTCTGGGTGACGGGGCCGCCTGGCCTGTGCAGGGTCTGATCCGC  
CACTTTTCGGCCGGAGCTCGAGGAGCGGATGCAGCGGTTTGCCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTAG

CCCACCACCCTGGCCTGCTGTCCTGCGTCTATCCATGTGGAATGCTGGACAATAAAGCGAGTGCTGCCCACCCTC  
C

167/5332  
**FIGURE 150**

GTCAAAGCCCTGCGTCCTTCGGCCCCCAGAGCGGAGAAGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTG  
CGACAGCAACCCCTGCTGGGCGCGAACTGGGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGG  
GTAGCGCCCGCGCCCGGGAAGACCCCTCGGCGCGAACC GGCGAGCCCGAGCCCGGGTCCCGGTTCCCAAGGCCCCG  
CCTCTAGGGCCTGGGGACTAATCGGATTGAGAGCGCGCCGGCCCGGGCCGCAACTCGCCAATTGCGGAGGGCGG  
TGGCCACCGCCCAATCCGGAGCAGACAGGTGCGAGGTCCGGAAGGCGGAGGCCAATCGGCGGCGGTTGCGACCTG  
CTGGGGCAGGTCTCGGCCAATAAGGAGGCTCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTTCGT  
GCCCGCTCGCCCTTCGGGCCAGACCTCTATTTACCAGGGGCGTGCGAGCCCGCTTGCCAATCAGAGCGCGGCTGAG  
CGGCCCCGCAGCCAACCCCGAGGAGCGGCGGCTGGCGTCCGCCGCGCCAGGAGTTGGGGATGTCCTACAAAC  
CCATCGCCCCCTGCTCCAGCAGCACCCCTGGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGTGAGG  
ATCCAGCTCCACCCCTGCTCGCCTGCCGGGCGGTGAGGTCTCGAAGAGAAGACGGCCTGAGTTCTGCAATACTG  
GGCCTGCCGCCTACCCCTCGCTGAGCCTCAGTTTGCTGGCCTGTGAAGTGGGCGTGGTCACGTAAGGGCTTGTAAG  
TGGAGCGCAGTGGGAGGGATTGTCCCTGAAGTTGATCAGCATGGAATGAAGCATCCTTTGGAGGGAATCGGGCG  
AACCCGGTCCTGGGCTTGGAAGCTGGGAGGCGGCGTCCCTGCCCGCGCTGACCTCTTACTCGCGCTGTTGC  
TGCAGGAAGCGTCCCGTCGCCGTCGGGCTCAGTGCCAGGAGCCGGCGCTCCTTTCAGACCGCTGTTTAACTGACTT  
TGGACCGCCTTCCATGGGCTACGTGCAGGCGATGAAGCCACCCGGCGCCAGGGCTCCCAGAGCACCTACACGGA  
CCTGCTGTGAGTCATAGAGGAGATGGGCAAAGAGATCCGGCCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCG  
CCTGAAGAGAGGTATCATCCATGCCCGGGCCCTAGTCAGAGAGTGCTGGCAGAGACAGAGCGGAACGCCCGCAC  
GTAAACAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCCGGCCACTGCAGAGCACCCGCTTCTCCCTGGCCTTC  
ATCCCGAGTTGCACTAACCATCCTGGGCTTCTGTCTGTGTCCCTTGGTGGGTCCCCTCCAGGAACCAAGGAGT  
GGCCCTCCAGGTGGCAGCACTAAGGACACCCCGCCACAACAAGAGTTAGCAGCGAGGTCCCATGAGTCCCACCC  
ATGACCTGCCGACAGTGTTGCCCACCGGAACTTTTGTGGCCCTACCGCTCAGCCCTTCCCAGCACTTCTCCAC  
TTTGTCCCGAGCCTCCTTCTCCCCCAGCAGGGGCACAGGCCTGGCACCTCCCTGCCTTGTGTCTGAGCCATAGT  
GACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTTTATATTAATAAAAGATGATTGGAGTTGTGCTCT  
C

168/5332  
**FIGURE 151**

CGCGGGCGGGGCTGCTAGGCTCGCCTCTGCCTCCCTCGTGGCGGGCCCCGGACATGGGGTCCCGTGGCCTGAGTCC  
CTCGGCCGGCGCGCAGGGCTCGGGCCGCGCGCAGCCTCCCCGCACTGACTGTGCGCCGTGCCCTGCGCCAGGAG  
GAGCGGAGGCCGCGCGCCCCGCCGAGCGCCTTCAGGATGCTCATCAAGGAATACCACATTCTGCTGCCCATGAGCC  
TGGACGAGTACCAGGTGGCCCCAGCTCTACATGATCCAGAAAAAGAGCCGGGAGGAGTCTAGTGGTGAGGGCAGCG  
GCGTGGAGATCCTGGCCAACCGGCCCTACACGGATGGGCCCCGGGGCAGCGGGCAATACACACACAAGGTGTACC  
ACGTGGGCTCCACATCCCAGGCTGGTTCCGGCACTGCTGCCCAAGGCTGCCCTGCAGGTAGAAGAGGAATCCTG  
GAATGCCTACCCCTACACCCGAACCCGGTACACCTGCCCTTTCTGTTGAGAAATTCTCCATTGAAATTGAGACCTA  
TTACCTGCCTGATGGGGGGCAGCAGCCAAACGTCTTCAACCTGAGCGGGGGCCGAGAGGAGACAGCGCATCCTGGA  
CACCATCGACATCGTGCGGGATGCAGTGGCCCCAGGCGAGTACAAAGCAGAAGAGGACCCCCGGCTTTATCTACTC  
GGTCAAGACGGGCCGAGGGCCACTGTCTGATGACTGGGCACGGACGGCGGCACAGACGGGGCCCCCTTATGTGTGC  
CTATAAGCTGTGCAAGGTTGAGTTCGCTACTGGGGCATGCAAGCCAAGATCGAGCAGTTCATCCATGATGTAGG  
TACTGCGTGGGTGATGCTGCGGCCACCGCCAGGCCTGGTGTGCTGGCAGGATGAGTGGACAGAGCTGAGCATGGC  
TGACATCCGGGCACTGGAAGAGGAGACTGCTCGCATGCTGGCCCAGCGCATGGCCAAGTGCAACACAGGCAGTGA  
GGGTCCGAGCCCAGCCCCCGGGAACCGAGCACCGAGGCCCGGTCTGCGGCAGCAACACTGGCACCCCCGATGG  
GCCTGAGCCCCCCCAGGCCCAGATGCCCTCCCCGATGCCAGCTTTGGGAAGCAGTGGTCTCATCCTCCCGTTCC  
TCCTACTCATCCCAACATGGAGGGGCTGTGTCTCCCCAGAGCTTGTCTGAGTGGCGCATGCCAGAACATTGCCCGA  
GACTCTGAGAACAGCTCCGAGGAAGAGTTCTTTGATGCCACGAAGGCTTCTCGGACAGTGAGGAGGTCTTCCCC  
AAGGAGATGACCAAGTGGAATCCAATGACTTCATTGATGCCCTTTGCCTCCCCAGTGGAGGCAGAGGGAACGCCA  
GAGCCTGGAGCCGAGGCAGCTAAAGGCATTGAGGATGGGGCCCAAGCACCCAGGGACTCAGAGGGCCTGGATGGA  
GCCGGGGAGCTGGGGGCTGAGGCATGCGCAGTCCACGCCCTCTTCCTTATCCTGCACAGCGGCAACATCCTGGAC  
TCAGGCCCTGGAGACGCCAACTCCAAGCAGGCGGATGTGCAGACGCTGAGCTCCGCCTTCGAGGCCGTACCCGC  
ATCCACTTCCCTGAGGCCTTGGGCCACGTGGCGCTGCGACTGGTGCCTGTCCACCCATCTGCGCCGCCGCCTAT  
GCCCTTGTCTCCAACCTGAGCCCTTACAGCCACGATGGGGACAGCCTGTCTCGCTCCCAAGACCACATTCCACTG  
GCTGCCCTGCCACTGCTGGCCACCTCATCCTCCCGCTACCAGGGCGCGTGGCCACCGTCATTGCCCGCACCAAC  
CAGGCCTACTCAGCCTTCTGCGCTCACCTGAGGGTGCCGGCTTCTGTGGGCAGGTGCGACTGATTGGAGATGGT  
GTTGGTGGCATCCTGGGCTTTGATGCACTCTGCCACAGTGCTAACGCGGGCACCGGGAGTCGGGGCAGCAGCCGC  
CGTGGGAGCATGAACAATGAGCTGCTCTCTCCGGAGTTTGGCCCAGTGCGGGACCCCTGGCAGATGGTGTGGAA  
GGCCTGGGTGCGGGCAGCCAGAACCTCGGCCCTGCCTCCCCAGCGCATCCCCAGCGACATGGCCAGTCTGAG  
CCCGAGGGCTCTCAGAACAGCCTTCAGGCAGCCCCCGCAACCACCTCTCTCTGGGAGCCCCGGCGGGCAAGCAG  
GCCTTCTGCCACCCGCTGCCAGTTCGAGGACCTGACGGCCCCAGCAGCACTGCCCCGCTTGACTTCAAGGTC  
TCTGGCTTCTTCTCTTCGGCTCCCCACTGGGCCTGGTGTGGCTCTGCGCAAACTGTGATGCCCGCCCTGGAG  
GCAGCCCAGATGCGCCCAGCCTGTGAACAGATCTACAACCTCTTCCACGCGGCTGACCCCTGCGCCTCACGCCCTC  
GAGCCCCTGTGGCCCCGAAGTTCCAGGCCATCGCCCCACTGACCGTGCCCCGCTACCAGAAGTTCCCCCTGGGA  
GATGGCTCATCCCTGCTGCTGGCCGACACTCTGCAGACGCACTCCAGCCTCTTTCTGGAGGAGCTGGAGATGCTG  
GTGCCCTCAACACCCACCTCTACTAGCGGTGCCCTTCTGGAAGGGCAGTGAGTTGGCCACTGACCCCCGGCCCAG  
CCAGCCGCCCCCAGCACCCACAGTGAGGTGGTTAAGATCCTGGAGCGCTGGTGGGGACCAAGCGGATCGACTAC  
TCGCTGTACTGCCCCGAGGCGCTACCGCCTTTCCACCGCTACGCTGCCCCACCTCTTCCACGCCAGCTACTGG  
GAGTCCGCCGACGTGGTGGCGTTTCATCCTGCGCCAGGTGATCGAGAAGGAGCAGGCCACAGCTGGCGGAATGCGA  
GGAGCCGTCCATCTACAGCCCCGCCCTTCCCCAGGCAGAAGTGGCAGCGAAAACGCACGCAGGTCAAGATCCGGGT  
AGAATGAACATCGTGGCCGTTATGGGTCTCCCAAAGATGTGGCTGTATACGCGGCGCTGGGGCTGTCCCCGAG  
CCAGACCTACATCGTGGGCCGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCTGTGACAGCGCTATGTGGC  
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCCGAGAGCTGCCTTGGGCAAGAG  
CAGCTATGGTGTGGCTGCCCCCGTGGACTTCTTGCACAAACAGAGCCAGCTGCTTCGCTCGAGGGGGCCCCAGCCA  
GGCGGAGCGTGAGGGGGCCCCGGAACACCACCCACCCCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT  
GGACAGCGAGGAGTGAGGCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGGCCCCGAGGGGCT  
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCCCCAGCCCCACACCCTATATCTCCGTG  
TGCTCCTCGGTGTTACTTCCCTTTTCATATGAGGGGACCCAGCGCCGGGGGAGGGAGGAGGGCGTGGGCATGGGC  
GCAGAGGCTTTTCCAGTGTGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

169/5332  
**FIGURE 152**

AGGCCACGTTCCACTACCGGACGCTGCACAGTGACGACGAGGGCACCGTGCTGGACGACAGCCGGGCTCGTGGCA  
AGCCCATGGAGCTCATCATTGGCAAGAAGTTCAAGCTGCCTGTGTGGGAGACCATCGTGTGCACCATGCGAGAAG  
GGGAGATTGCCCAGTTCCCTCTGTGACATCAAGCATGTGGTCCTGTACCCGCTGGTGGCCAAGAGTCTCCGCAACA  
TCGCGGTGGGCAAGGACCCCTGGAGGGCCAGCGGCACTGCTGCGGTGTTGCACAGATGCGTGAACACAGCTCCC  
TGGGCCATGCTGACCTGGACGCCCTGCAGCAGAACCCCAAGCCCTCATCTTCCACATGGAGATGCTGAAGGTGG  
AGAGCCCTGGCACGTACCAGCAGGACCCATGGGCCATGACAGACGAAGAGAAGGCCAAAGGCAGTGCCACTTATCC  
ACCAGGAGGGCAACCGGTTGTACCGCGAGGGGCATGTGAAGGAGGCTGCTGCCAAGTACTACGATGCCATTGCCT  
GCCTCAAGAACCTGCAGATGAAGGAACAGCCTGGGTCCCCTGAATGGATCCAGCTGGACAAGCAGATCACGCCGC  
TGCTGCTCAACTACTGCCAGTGCAAGCTGGTGGTCGAGGAGTACTACGAGGTGCTGGACCACCTAGCTCTTCCAT  
CCTCAACAAGTACGACGACAACGTCAAGGCCTACTTCAAGCGGGGCAAGGCCCACGCGGCCGTGTGGAATGCCCA  
GGAGGCCCAGGCTGACTTTGCCAAAGTGCTGGAGCTGGACCCAGCCCTGGCGCCTGTGGTTGAGCCGAGAGCTGCT  
GGGCCCTGGAGGCACGGATCCGGCAGAAGGACGAAGAGGACAAAGCCCGGTTCCGGGGGATCTTCTCCCATTGAC  
AGGAGCACTTGGCCCTGCCTTACCTGCCAAGCCCCTGCTGCAGCTGCCAGCCCCCTGCCCGTGCTGCGTCATG  
CTTCTGTGTATATAAAGGCCTTTATTTATCTCTC

170/5332  
**FIGURE 153**

GCCCACGTCATGGCGCCCGAGGAGAACGCGGGGACCGAACTCTTGCTGCAGAGTTTGGAGCGCCGCTTCCTGGCG  
GCGCGTGCACTGCGCTCCTTCCCCCTGGCAGAGCTTAGAAGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTG  
CGGGATATTTTGAGAAGACGTGCTGTATAGCCCAGAAGCCATCGTGTGCTGGTCGGGGTCCTGCGGAGGCTGG  
CTGCCTGCCGGGAGCACCAGCGGGCTCCTCAAGTCTATGTGGCCCTTACCATCTGCAACCCAGAGACGTGCCAGC  
TGTTCAACCACTGAGCTATGCCGGGCTGGGATCAGATGGGAAGTGGAACTCGTCATGACCAGAACTGTTTCCCT  
ACGAAGAGCACTTGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACATACGACTCCAACGGGATTGTGAG  
AATCAAGTCACTCTAGTGGGAAGAGTTTTTATATGGGAAAGCGGATAAACTTTCATTGGACTGGAATGTTTGGGA  
GAATGTTAATTTCCAAATCAGGAACCACAACTGCCCTCTAATAAGACATCAGCTATCTAAGCATGTGGGTGCTC  
CCTTTCTGCCAGCAGTTCTGGTTCTTAAGAAAATCGCCATCAATCAGACATGAAATCTCTGGCTCCAAAAATAGC  
ATTTTCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGATGTTCCCCCAATGTGGACACACTCGGTTCCCCACA  
AAGCCAAGCCCGCTGCAGCTGCCACATCCCTGGACACATTCGGTTCCCTCACAAAGCCAAGCCCGCTGCAGCTGCC  
ACATCCGTGGACACACTCGGTTCTTACAAAGCCAAGCCCACTGCAGCTGCCACATCCCTGGGCTTACAGTGCAG  
CAGGTGCTTTTTTCAAGACAGGAATCAAAATGTTAGGAACACGGCGGAAAGATGACACCTGGAGAGCAAACGCAG  
GATGAGGAGTACTGCAGAGGTCACACGGAAGTCGCAGAACAGTAATCCGCT



171/5332  
**FIGURE 154**

**ATGGGGGAGCAGGTGCCTGGATTATCCACCCTAACAAATCTGGACAAAGGAAAACGAGGTTGCAGTAAAAACAGG**  
**GATACCATAAGCAACCACCTCTTTCTCAACGATGTGATGAAAGCAAAGCCAAGTAGCTCCATATATCCAACTT**  
**AAAAATATAAAAAGTTACGCCCCTGGGCTGCAGTTGGAGCTATGGCGGCAGCAGCTGTCACTGGGCCTAGCCTGG**  
**GGTGTGGACCTGGGGACTCCCCAGAAGGCCCCGATGTGGAGGCTCACGGAGCGTCGGCGGAAGGCGCACAGGATG**  
**CTAAAGCTTTACAACGGCCTCTCAGAAGGGGAAGCGGTGGGACTCCCTGCAGGGCCCGACCCCCCTGGACCCCACT**  
**GATCTGAACGGGGCACACTTTGACCCGGAAGTTTACCTAGACAAGCTGCCTAGAGAGTCCCCTCTGGCCCAGCTG**  
**ATGGACAGTGAGACGGACATGGTGCAGCAGATCCGGGCTCTAGACAGCGACATGCAAACCCTGGTCTATGAGAAC**  
**TACGATAAGGAGACCATCGGGGTGCAACCTGGTTGGGGCGGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCATG**  
**GCCGCAGGCAGGGGACAGCGACTGCTTGGGCCAGGGCAGGCGAGCTCAGCGCAGGCCAGGGCCCGGCGTGTCCGC**  
**GGTGCAGGCAGAGCCCCGGAGCCATGGCCAGCCCTTCCGGCAGCTCCAAAGCCACTGGCAAGCCCCGAGGCAGG**  
**GATGGCCGGCCCAGGAGAGAGGAGGACGACGTCACTCCCGAAGAGAAGAGGCTGCGGCTGTTGCTGGAGGAGGGA**  
**AGCGCACAGCCCGATGACGGGGAGGACGCACCGCGGCCAGGCAGGAAGGAGACCGGCACCCAGACAGGTGGCGAC**  
**GGCAGAGGAGCAGCACGGGCAGCCCTCCTCGCCGTGGGCGGCATCAGAGCCCCCTGCCAGTCTTGGGGTTGCT**  
**CCTGGATGCCGTCTGGGAGGCTTGCTCATGGTGACATCCTTATCTCCCCGTGCAGTTACCGCATTACAGAGCTTG**  
**GGTCACCTGGACACTGAACTCAGGCGAATTTTCTCTGAGATCCTGGGAGAAGGAGGACAGTTCTCTGGAAGGTTT**  
**TCCAGGGCCGATCACGGAAAGGATGAGAAGGGAGAGGTCTGGTCTGGGGACACAATTACGATGGCAGTG****TAA**

172/5332  
**FIGURE 155**

GACTCCGGGGCGACCGCCGCGAGTCCGCAGTAGTTCGGGGCCATCGAGGCGGAGCCGCCGCTCTACCCGATGGCGG  
GGGCTGCGGGGGCCGACGGGCGACGAGGACCTGCTCGGGGTCCCGGACGGGCCCCGAGCCCCGCTGGACGAGCTGG  
TGGGCGCGTACCCCAACTACAACGAGGAGGAGGAGGAGCGCCGCTACTACCGCCGCAAGCGCCTGGGCGTGCTCA  
AGAACGTGCTGGCTGCCAGCGCCGGGGGCATGCTCACCTACGGCGTCTACCTGGGCCTCCTGCAGATGCAGCTGA  
TCCTGCACTACGACGAGACCTACCGCGAGGTGAAGTATGGCAACATGGGGCTGCCGACATCGACAGCAAAATGC  
TGATGGGCATCAACGTGACTCCCATCGCCGCCCTGCTCTACACACCTGTGCTCATCAGGTTTTTTGGAACGAAGT  
GGATGATGTTCCCTCGCTGTGGGCATCTACGCCCTCTTTGTCTCCACCAACTACTGGGAGCGCTACTACACGCTTG  
TGCCCTCGGCTGTGGCCCTGGGCATGGCCATCGTGCCCTTTTGGGCTTCCATGGGCAACTACATCACCAGGATGG  
CGCAGAAGTACCATGAGTACTCCCACTACAAGGAGCAGGATGGGCAGGGGATGAAGCAGCGGCCCTCCGCGGGGGCT  
CCCACGCGCCCTATCTCCTGGTCTTCCAAGCCATCTTCTACAGCTTCTTCCATCTGAGCTTCGCCTGCGCCCAGC  
TGCCCATGATTTATTTCCCTGAACCACTACCTGTATGACCTGAACCACACGCTGTACAATGTGCAGAGCTGCGGCA  
CCAACAGCCACGGGATCCTCAGCGGCTTCAACAAGACGGTTCTGCGGACGCTCCCGCGGAGCGGAAACCTCATTG  
TGGTGGAGAGCGTGCTCATGGCAGTGGCTTCCCTGGCCATGCTGCTGGTGCTGGGTTTGTGCGGAGCCGCTTACCG  
GCCCCAGGAGGAGATCGATCTGCGCAGCGTGGGCTGGGGCAACATCTTCCAGCTGCCCTTCAAGCACGTGCGTGA  
CTACCGCCTGCGCCACCTCGTGCCCTTTCTTTATCTACAGCGGCTTCGAGGTGCTCTTTGCCTGCACTGGTATCGC  
CTTGGGCTATGGCGTGTGCTCGGTGGGGCTGGAGCGGCTGGCTTACCTCCTCGTGGCTTACAGCCTGGGCGCCTC  
AGCCGCCCTCACTCCTGGGCCTGCTGGGCCTGTGGCTGCCACGCCCGGTGCCCTGGTGGCCGGAGCAGGGGTGCA  
CCTGCTGCTCACCTTCATCCTCTTTTTCTGGGCCCCCTGTGCCTCGGGTCTTGCAACACAGCTGGATCCTCTATGT  
GGCAGCTGCCCTTTGGGGTGTGGGCAGTGGCCTGAACAAGACTGGACTCAGCACACTCCTGGGAATCTTGTAAGA  
AGACAAGGAGAGACAGGACTTCATCTTACCATCTACCACTGGTGGCAGGCTGTGGCCATCTTACCAGTGTACCT  
GGGCTCGAGCCTGCACATGAAGGCTAAGCTGGCGGTGCTGCTGGTGACGCTGGTGGCGGCCGCGGTCTCCTACCT  
GCGGATGGAGCAGAAGCTGCGCCGGGGCGTGGCCCCGCGCCAGCCCCGATCCCGCGGCCCCAGCACAAAGGTGCG  
CGGTTACCGCTACTTGGAGGAGGACAACCTCGGACGAGAGCGACGCGGAGGGCGAGCATGGGGACGGCGCGGAGGA  
GGAGGCGCCGCCCGCAGGGCCAGGCCTGGCCCCGAGCCCGCTGGACTCGGCCGCGGCCCTGCCCGTACGAACA  
GGCGCAGGGGGGAGACGGGCCGAGGAGCAGTGAGGGGCCGCTGGTCCCCGGA CTAGCCTCCCTCCTCGCCGG  
CCTCAGTTTACCACGTCTGAGGTGCGGGGGACCCCCCTCCGAGTCCCGCGCTGTCTTCAAAGGCCCTGTCTCCCC  
TCCCCACGTTGGGGACGCCCCCTCCAGAGCCCAGGTACCTCCGGGCTTCCGAGCCCCCTCCAAGGCGGAGTG  
GAGCCTTGGGAACCCCTCGGCCAAGCACAGGGGTTCGAAAAATACAGCTGAAACCCCGCGGGGCCCTTAGCACGCGC  
CCCAGCGCCGGAGCACGGTCAGGGTCTTCTTGCGACCCGGCCCCGCTCCAGATCCCCACAGCTCTCGGCCGCGGAC  
CCGGGCCGCGTGTGAGCGCACTTTGCACCTCCTATCCCCAGGGTCCGCCGAGAGCCACGATTTTTTACAGAAAAAT  
GAGCAATAAAGAGATTTTGTACTGTC

173/5332  
**FIGURE 156**

ATTTCTTAACAGCAGGGCCACCAGGCAGAGCGGGACAGCCAGGAGGAAGGGCAGCTTGGCAGAGCCTCAGGATGG  
ACCCCTTGGGGACACGCTGCGGGGACTGCGGGAGGCCTTCCACGCGGGGCGCACGCGGCCAGCTGAGTTCCGGG  
CTGCGCAGCTCCAAGGCCTGGGCCGCTTCCTGCAAGAAAACAAGCAGCTTCTGCACGACGCACTGGCCCAGGACC  
TGCACAAGGCCACGCAGCTGGACTCCGCCTTCATCCGGAAGGAGCCCTTTGGCCTGGTCCTCATCATTGCGCCCT  
GGAACATATCCGCTGAACCTGACGCTGGTGCCCTCGTGGGAGCCCTCGCTGCAGGGAACGTGTGTGGTGCTGAAGC  
CATCGGAGATTAGCAAGAACGTCGAGAAGATCCTGGCCGAGGTGCTGCCCAATACGTGGACCAGAGCTGCTTTG  
CTGTGGTGCTGGGCGGGCCCCAGGAGACGGGGCAGCTGCTAGAGCACAGGTTGACTACATCTTCTTCACAGGGA  
GCCCTCGTGTGGGCAAGATTGTTATGACTGCTGCCGCCAAGCACCTGACACCTGTCACCCTGGAGCTGGGGGGCA  
AGAACCCTTGCTACGTGGACGACAACCTGCGACCCCCAGACCGTGGCCAACCGCTGGCCTGGTTCCGCTACTTCA  
ACGCCGGCCAGACCTGCGTGGCCCCCGACTACGTCTATGACGCCCTGAGATGCAGGAGAGGCTGCTGCCTGCC  
TGCAGAGCACCATCACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAAACCTGGGCCGCATCATCAACCAGA  
AACAGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGCGTGTGGCCATTGGGGGGCCAGAGCGATGAGAGCGATCG  
CTACATCGCCCCACGGTGCTGGTGGATGTGCAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTTCGGGCCCCT  
CCTGCCCATCGTGAACGTGCAGAGCTTGGACGAGGCCATCGAGTTCATCAACCGCGGGGAGAAGCCCCCTGGCCCT  
GTACGCCTTCTCCAACAGCAGCCAGGTGGTCAAGCGGGTGCTGACCCAGACCAGCAGCGGGGGGCTTCTGTGGGAA  
CGACGGCTTCATGCACATGACCCTGGCCAGCCTGCCTTTTGGAGGAGTGGGTGCCAGTGGGATGGGCCGGTACCA  
TGGAAGTTCTCCTTCGACACCTTCTCCACCATCGCGCCTGCCTCCTGCGCAGCCCGGGGATGGAGAAGCTCAA  
CGCCCTCCGCTACCCGCCGAATCGCCGCGCCGCTGAGGATGCTGCTGGTGGCCATGGAGGCCAAGGCTGCAGC  
TGCACACTGCTCTGAGCCCTTCCCCAGGCCAGGCTGTAGACCACCATGACAGCTGTCGCTGCGGCTGGTGGAG  
ACGGGGCCTGGGCTCCCGGGCCCCAGGAGGAAAAGGATTGCCAAGGCTCCAGGGCACCCCTCAAAGCAGCGCCTG  
CCTCCTCCCTCCTGGGTCTTCCCTCTCCCTGCCTCAGCCTCCTCCCTCAGCCGCTCCCAACCATGAGAGCCGAGG  
TGGGAGGCATGGGAAACAGTGCAGTGAATCAACCCCTGCCCCGACCAACCACCCATATTCAGGAGAAGAGGAC  
AGACACGGCACCTCTGAGTCAACCCCTCTCCTGTGGAGCGGGCGTCCGAGGGGCCCTGGCATCTGACTCAGGCCAC  
ACCATGGAATCACTGCATCCAAGGCCATTCTGCCCTCTCTGAGTCTCAGTTTTTCCATTTGTTTCAGTGGAGAGA  
ATTAACCATTTGATACCTCCTGGCTGGGTGAGGCGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAG  
GCGGATCACCTGAAATCAGGAGTTCAAGATCAGCCTGGCTAACATGGCGAAACCCCGTCTCTACTAAAAATACAA  
AAATTAGCCTGGCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTAAGGCAGGAGAATCGCTTGAAC  
CCGGGAGGTGGAGGTTGCCGTGAGCTGAGATTGCGTCACTGAACCTCCGGCCTGGGTGACAGAAGGAGGCTCTGCC  
TTAAAAAAAAAAAAAAAAAAAAACCTCCTGGGACTGTTGCAAGGATGAAATGAAGGATTGAGGGATTGAGGGATTG  
CTGAGCTGGAGCTCCAGGTGTCTATCTTTCTCAGTGGGTGGCACGGAGCGGGGCCCTCCCTCTTCTCTCCA  
GGCAGGTGGGGCTGTGGTTATGCGATAGGGTCTCCCTTCCCTCCAGCCCATGCCAGAGGAGCTTGTAACCTTTTA  
TCCTCATGGTGCCCACTACGAGTCATACTCTTCCCCATGCTGCTCATCCTCCTGGGCCCCATCCACTCAGCCAAA  
GCAGAATGCAGGGTTTCTGCCTGACAACCTTCTCACCTCCCAAGTCCCACTTTTGAACAAGCTGATGATTCTG  
AAACTGGCCCAATTTCTAACAAGCCGGATGCTTGAGAAACCTACATTTGGACAATGAGAGGCTGCTCCTGCGGC  
CTGCGGGCCACCTCCTCTTCTTGGCTCCTGCTTTCTTTTAGACTATATCAACCTACAACCTTTAGTCGGAAGA  
GGGACAGGGGTGGACCTGAGTTTCGTCTCCTGTCTCTGCTGATGTCACCTGAATAAAGCCTTCTTCCCTGGC

174/5332  
**FIGURE 157**

CCCGCTGGCCCAATGGCAGCGTCCTACAGTGTAGCCTCCGCCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGT  
AGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTGCACGTGCAG  
GACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCCG  
AGATGGACATGAAGTCAGTGACTGACCGGGCAGCCCGCACCCCTGCTGTGGACTGAGCTCTTCCGAGGCCTGGGCA  
TGACCTTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTTCGAGAAGGGCCCGCTGAGCCCTCGCT  
TCCGTGGGGAGCATGCGCTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCA  
TCTGCCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCGGACCACCCGCTATGACA  
TCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGGATGCCATCGTCGAGGGCCCCA  
ACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGT  
GGGAGGCCGAGATCGCCGCCAACATCCAGGCTGACTACTTGTATCGGTGACGCCCCACCGGCCCCGAGCCCCCTGC  
TGCCCAATAAAACCACTCCGACCCACGG

175/5332  
**FIGURE 158**

GCGGCGCCTAGTCCCGGGCTGGCGGGAGTGCAGTTCTGAGTCCCGCCCGGCGTGCGCGGAGCGGGGCAGCCAGCA  
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACCATGGGCTCCATGTTCCGGAGCGAGGAGGTGGCCCTGGTCCAG  
CTCTTTCTGCCACAGCGGCTGCCTACACCTGCGTGAGTCGGCTGGGCGAGCTGGGCCTCGTGAGTTTCAGAGAC  
CTCAACGCCTCGGTGAGCGCTTCCAGAGACGCTTTGTGGTTGATGTTTCGGCGCTGTGAGGAGCTGGAGAAGACC  
TTCACCTTCTGCAGGAGGAGGTGCGGCGGGCTGGGCTGGTCTGCCCCGCCAAAGGGGAGGCTGCCGGCACCC  
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCCTGGCCCAGGAGCTGCGGGATGTGCGGGGCAAC  
CAGCAGGCCCTGCGGGCCCAGCTGCACAGCTGCAGCTCCACGCCGCCGTGCTACGCCAGGGCCATGAACCTCAG  
CTGGCAGCCGCCACACAGATGGGGCCTCAGAGAGGACGCCCCGTGCTCCAGGCCCCGGGGGGCCGCACCAGGAC  
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCCTGCTCTGGAGGGCC  
TGCCGCGGCTTCTCATTGCCAGCTTACGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGCCAGCC  
ACGTGGATGACCTTCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGAAGTCTTC  
CACTGCCACGTCTTCCCCTTCTGCAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC  
CAGGAGCTGCAGGAGGTCTCGGGGAGACAGAGCGGTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG  
CCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAGTGCAGCGTGAGCACACG  
CACAAGTGCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC  
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCCCCACACTCATCCGCACC  
AACCGCTTCACGGCCAGCTTCCAGGGCATCGTGGATGCCACGGCGTGCGGCGCTACCAGGAGGTCAACCCCGCT  
CCCTACACCATCATCACCTTCCCCTTCTGTTTGTGTGATGTTTCGGGGATGTGGGGCCACGGGCTGCTCATGTT  
CTGTTTCGCCCTGGCCATGGTCTTGCAGGAGAACCGACCGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT  
TTCTTCAGGGGCCGCTACCTGCTCTGCTTATGGGCCTGTTCTCCATCTACACCGGCTTCTATACAACGAGTGC  
TTCAGTCGCGCCACCAGCATCTTCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACAGTCTGGCTGGAGTGAT  
GCATTCTGGCCCAGCACACGATGCTTACCCTGGATCCCAACGTACCGGTGTCTTCTGGGACCTACCCCTTT  
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCCTTGAGCTTCTCAACTCCTTCAAGATGAAGATGTCCGTC  
ATCCTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGAGGCAC  
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCTTAGTCATC  
TACAAGTGGCTGTGTGTCTGGGCTGCCAGGGCCGCTCGGCCCCCAGCATCCTCATCCACTTCATCAACATGTTT  
CTCTTCTCCACAGCCCCAGCAACAGGCTGCTCTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGGTCTG  
GCCTTGGCCATGGTGGCCATCCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCGCTGCGG  
AGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG  
AGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCTCCGAGGTGCTCATG  
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC  
CTGAGCCTGGCCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGGGCCGG  
GAGGTGGGCGTGGCGGCTGTGGTGTGTTCCCATCTTTGCCGCCTTTGCCGTGATGACCGTGGCTATCCTGCTG  
GTGATGGAGGACTCTCAGCCTTCTGCACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAAGTTCTACTCA  
GGCACGGGCTACAAGCTGAGTCCCTTACCTTCCGTGCCACAGATGACTAGGGCCCACTGCAGGTCTGCCAGAC  
CTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGC

176/5332  
**FIGURE 159**

GAGGTCCTGTAATAAAGAGGGATCCGAACAAGCTCAGAAAGAAAATGAATTTCAAGGGGCTGAGGCCATGGTTCT  
GGAGAGCGTTATGTTTGCCATTCTCGCAGAGAGGTCCTTGGGCCAAAACCTCTATGGCATCTTTCCCAAGGCCG  
ACTGGAGCAGTTTCATCCCGAGCCGGCGATTAGATACTGAAGAATTAAGTTTGCCAGATATTTCTGCAGAAATCGC  
CGAGAAAATGGCTACATTTTCATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTGGCACAAATGGA  
AAAGTATCTAAAGGAAGTGCTGAGAATTAAATTTACTGAGGAATCCAGAATTAAAAAGCTCCACAAATTGCTCAG  
TTACAATCTGCCCTTGGAACCTGGAACCTGAGATCATTGCTTGAATCTACTCCATCTCCAGTTGTATTTTGTCA  
TAATGACTGTCAAGAAGGTAATATCTTGTGCTGGAAGGCCGAGAGAATTCTGAAAAACAGAACTGATGCTCAT  
TGATTTTCAATACAGCAGTTACAATTACAGGGGATTTCGACATTGGAAATCACTTCTGTGAGTGGATGTATGATTA  
TAGCTATGAAAAATACCCCTTTTTTTCAGAGCAAACATCCGGAAGTATCCACCAAGAAAACAACAGCTCCATTTTAT  
TTCCAGTTACTTGCCTGCATTCCAAAATGACTTTTGAACCTCAGTACTGAAGAAAAATCCATTATAAAAGAAGA  
AATGTTGCTTGAAGTTAATAGGTTTGCCCTTGCTATCTCATTTCCTCTGGGGACTGTGGTCCATTGTACAAGCCAA  
GATTTTCATCTATTGAATTTGGGTACATGGACTACGCCCAAGCAAGGTTTGATGCCTATTTCCACCAGAAGAGGAA  
GCTTGGGGTGTGACTGTGGGGAGGACTCCATCCACCTCATCACTGGACTGCATGGGGAGGCAGCAGAGCGGGGTC  
CCCTCTGTGCTTCGACTACTGCTCCTGTGGCAGGAGGCTTTGGGTGGCTCACTACTGAACACATGTGTATGATAC  
TAAAGACGGTATTAAATGGAGCGACGTTTATTTTCATCTCTTGTTTACGATTTCACTAGGACTCAGAAACGAGAT  
CGGGAAGCAGAAATATAGTGCAATAGTGCAACATCTCTGAATCCTTTTAATCTAGAGAAGGCATTTTCATATTTGG  
GGGCTAAGGTTTCCAGTCAGATGAGGCAAACAGCAAGAGTAAGCAGTGTTACTTGCAGGTACTTTGGTTAATGTT  
GATTTAAATTTTCATGAATGTGCTGGTGAACACTGTGACCAGGCTTTTGTAGATGGCGATGTGTTATAGACGGTG  
CTCACTCCCAAGGGACAGCAAGTGAGCAGAGATGTACTGCAAAGTCGCCAGTCACTGCTGCAAGGTGGCCTCTGC  
CTGGGGCCTCCAGAAGCTGCTCCTTTACCCTCTTGGTCCCATGGCTGAAGCTGGAGCAGCGGATTGCTCTGGAGC  
AGCCAAGGCCGCCAGCGTGTGGAGCAGAGCTCTCCCTCCTGCTGGGCGTGTGTGACACTGATGAGTTTCACTGT  
ACTGCATGTGACTTCTCCCTGCCCTTCTCCTGATGGAGTGTGCAGACAGCCATGCGTGGCCACGGGGGAGTG  
TGAGGACCTCCCTGTCTCCCGCTCCCTCCAGGGGAGCCAGCTGCTTGACCTAGCTCTTTGGGCCTCTCCTGC  
CCTCTGCTCTGCCTGGAGTGTGGATCCTGTGAGTAGGCTGGGCCTCCCTGGGCAGGGTTCTCCAAGGGCCCGG  
TTTCCCGGCCCTTACCTTTCTGATGCCCCTGACATCATCATTCTTGTGGGAGACAGCAGCCTGTATGTGGTGTG  
GGGCGTGGATCGAGTGTAGCTGTGAAATCCATATATATGAAATGTCC

177/5332  
**FIGURE 160**

CATCATTCTGTGCCGGAGATCAGTGTGGACGCCTGGTCCCGTCATCAGTTAAGTTTCTGGTTGAGCTGCATTAC  
TCATGAGGATAATCTGGAACCCAGTCGCACCCAGAGCAGAGTACAAGCAAGTTGCCAGCTCCAGGGCACTCCCTG  
TGACTATGGCACGTGTGACCCTCGCATGCAAAGGAAGGCCGTTAAGCTTAACACATATTCATGGAAACTGTTGTA  
AAGCTGCTAATCTGGAGGACAGAAGACAGACGCAGGCCCGTAGAGATTGCTTTGGTAATGTTCTGAAAAAGCCAG  
ATCTGTGTCAGATCCCGCGTCCTCCTTGCCAGGGAAACACACACGAACATCAGTAAAATGTGGTAATTGCCAGG  
ATGCATGTGTGGAAGAAGCGTGGCAGGAGGACCAAGGAGAGTGCCCCCTGTTTCTGCTGGGGAACCAAGCAAAGC  
AGGCTTCATGGAGGAGGATTCAAGTCAACCTGAAGTCAAACCTCAGGTTGCCAGCCGCTGTCAGAGCCCCTGGG  
CCAGTCCAGACCCCCTCCACCTGCGGAAGCATGGAGCCCAGGAGGCCATGTTGGGCAAACAGGCTGTGCCCCAGAC  
AGTGCCCCAAGACCAACTCATCACACCCACCACCTTCTCATTTTTCATGTCTTGCTGTTCCCTGGTCATTGTCAATG  
TTAAGAACCGCAAAGGTGTCCAAACTATACAGATCCACATAGTCTAACAGATGTCTCTATATTCCTCCTCCTCA  
AACTCTCAGAGGATCCAGAACTGCAGCCGGTCGTCGCTGGGCTGTTCCCTGTCCATGTGCCTGGTCACAGTGCTGG  
GGAACCTGCTCATCATCCTGGCCGTCAGCCCTGACTCCCACCTCCACACCCCCATGTACTTCATCCTTTCCAACC  
TGCCCTTGCTGACATCGGTTTACCTCCACCACGGTCCCCAAGATGATTGTGGACATCCAGTCTCACAGCAGAG  
TCATCTCCTATGCAGGCTGCCTGACTCAGATGTCTCTCTTTGCCATTTTGGAGGCATGGAAGAGAGACATGCTC  
CTGAGTGTGATGGCCTATGGCCGGAACATCAACCTGTATTTCCCTGCTGCCGTATTTGGTTTTCTTCCCATCTTG  
GGGACCTTTTCTCTTACTGTAAAATTGTTTCCCTCCATTCTGAGGGTTTCATCATCAGGTGTTGGAGGGTACCTCG  
GTTTCAAGATGTGTCATCTTCCCCAAGAAAGAGTGCAGTGGCCTCAGTGATGTACACGGTGGTCACCCCCATGCTGA  
ACCCCTTCATGTGTCCAAGACACACAGGGCCACGGAATCTCACAGGTGTCCGAGAATTCTCCTCCTGGGACTCT  
CAGAGGACCCAGAACTGCAGCTTATCCTCACTTTGCTGTCCCTGTCCCTGTCCATGTATCTGGTCACGGTGCTGA  
GGAACCTGCTCAGCATCCTGGCTGTGAGCTCTGACTCCCCCTCCACACCCCCATGTACTTCTTCTCTCCAAGC  
TGTGCTGGGCTGACATCGGTTTACCTCGGCCACGGTTCCCAAGATGATTGTGGACATGCAGTCACATAGCAGAG  
TCATCTCTCATGCGGGCTGCCTGACGCAGATATCTTTCTTGGTCTTTTTTGCATGTATAGAAGGCATGCTCCTGA  
CTGTGATGGCCTATGACTACTTTGTAGCCATCTGTGCTCCTCTGCACTACCCAGTCATTGTGAATCCTCAGCTCT  
GTGCTTCTTCTTTTTTGGTGTCTTTTTTCTTACCTTGTGGATTCCCAGCTGCACAGTTGGATTGTGTTACAAT  
TCACCATCATCAAGAATGTGGAATCTCTAATTTTGTCTGTGACCCCTCTCAACTTCTCAAACCTTGCCGTCTTG  
ACAGCGTCATCAATAGCATATTCATATATTTGATAGTACTATGTTTGGTTTTCTTCCCATTCCAGGGATCCTTT  
TGTCTTACTATAAAATCATCCCCTCCATTCTAAGGATTTTCATCATCAGATGGGAAGTATAAAGCCTTCTTCACCT  
GTGGCTCTCACCTAGCAGCTGTTTGCTGA

178/5332  
**FIGURE 161**

TGAAGAAGCCTGCAAAGCCTTTACTTTCAAAGATAAAATTGAGAAATCATTGCAAGCGGCTGGAGCAAAAGAATG  
CTTCAAGAAAACTCGAAATGGGAAACTTAGTACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAATTTGCCCATTA  
AAAAAGATAAGGAGCCAGAGGGACCAGCCCAAGCCGAGTTGCCAGCGGGTGCTTGACTAGACACGCGGCGAGAG  
AACACAGACAGAATCCTGTGAGAGGTGCTCATTGCGAGGGGGAGAGCTCGCCCTGCACCTACATAACTCGGCGGT  
CAGTGAGGACAAGAACAATCTGAAGGAGGCCTCTGACATCAAGCTTGAACCAAATACGTTGAATGGCTATAAAA  
GCAGTGTGACGGAACCTTGCCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTGTGCTGCAGGAGGAAGAAGTGG  
CTCATGAGACTGCACAAAAAGGGGAGGCAAAGTGTGACATGACACAGGCATGTCCAAAAAGAAGTCACGAC  
AAGGAAAACCTTGTGAAACAGTTTGCAAAAATAGAGGAATCTACTCCAGTGCACGATTCTCCTGGAAAAGACGACG  
CGGTACCAGATTTGATGGGTCCCCATTCTGACCAGGGTGAGCACAGTGGCACTGTGGGCGTGCCTGTGAGCTACA  
CAGACTGTGCTCCTTCACCCGTCGGTTGTTTCAGTTGTGACATCAGATAGCTTCAAAACAAAAGACAGCTTTAGAA  
CTGCAAAAAGTAAAAAGAAGAGGCGAATCAAGGTATGATGCACAGTTAATCCTAGAAAATAACTCTGGGATTC  
CCAAATTGACTCTTCGTAGGCGTCATGATAGCAGCAGCAAAACAAATGACCAAGAGAATGATGGAATGAACTCTT  
CCAAAATAAGCATCAAGTTAAGCAAAGACCATGACAACGATAACAATCTCTATGTAGCAAAGCTTAATAATGGAT  
TTAACTCAGGATCAGGCAGTAGTTCTACAAAATTAATAATCCAGCTAAAACGAGATGAGGAAAATAGGGGGTCTT  
ATACAGAGGGGCTTCATGAAAATGGGGTGTGCTGCAGTGATCCTCTTTCTCTCTTGGAGTCTCGAATGGAGGTGG  
ATGACTATAGTCAGTATGAGGAAGAAAGTACAGATGATTCCCTCCTCTCTGAGGGCGATGAAGAGGAGGATGACT  
ATGATGATGACTTTGAAGACGATTTTATTCCTCTTCCTCCAGCTAAGCGCTTGAGGTTAATAGTTGGAAGAGACT  
CTATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTTTAAGGCTTAATGCCTAAGCTCTTGGTCTTA  
ACTTGACCTGGGATAACTACTTTAAAGAAATAAAAAATTCAGTCAATTATTCTCACTGAAAGTTTAGTGGCA  
GCACTTCTATTGTCCCTTCACTTATCAGCATACTATTGTAGAAAGTGTACAGCATACTGACTCAATTCTTAAGTC  
TGATTTGTGCAAATTTTTATCGTACTTTTTAAATAGCCTTCTTACGTGCAATTCTGAGTTAGAGGTAAAGCCCTG  
TTGTAAAATAAAGGCTCAAGCAAAATTTGTACAGTGATAGCAACTTTCCACACAGGACGTTGAAAACAGTAATGTG  
GCTACACAGTTTTTTTTAACTGTAAGAGCATCAGCTGGCTCTTTAATATATGACTAAACAATAATTTAAAACAAAT  
CATAGTAGCAGCATATTAAGGGTTTCTAGTATGCTAATATCACCAGCAATGATCTTTGGCTTTTTGATTTATTTG  
CTAGATGTTTCCCCCTTGGAGTTTTGTGAGTTTTCACACTGTTTGCTGGCCAGGTGTACTGTTTGTGGCCTTTGT  
TAATATCGCAAACCATTTGGTTGGGAGTCAGATTGGTTTCTT



179/5332  
**FIGURE 162**

CGCGGGGGGCGCGACGGCGGGCGGGCGGGCGGGTGGGGGCGGGGGGCTCGGACGCTGCGGGGACTCATTTTTCC  
CGTCAGCGGAGGGAGCGAGCGGTGCTGCGGCCCGCGCCGCATCTTGATTTTACTCTCCATTTTTCTCTGGAAT  
TATTTTTGGTGATTAAATTTCTGGGGGGGACTGGGACGCGGGGCGCGGCCCGCATCGCAGCGGGCG  
GGCAGCGGGGCTGGGACGCGCCCCGAGGAGGAGCGGGGCGGCGCAGGCGGAGAGAACATTGAAAGTATTCTCTA  
AGCTATTTGAAGAGAGTGACTAAATGCACCTGGGTGAGGCTGTCTGTGGGTATGAAGTGGTTGGGAGAATCCAAG  
AACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATGACCATCAGCAGAATCAATCAAAATTACAG  
CACACGGGAAGGACACCCTGAAGGCTGGCAAAAATGCAGTCGAGAGGAGGTCGAACAGATGTAATGGTAACTCG  
GGATTTGAAGGACAGAGTCGCTATGTACCATCCTCTGGAATGTCCGCCAAGGAACTCTGTGAAAATGATGACCTA  
GCAACCAGTTTGGTTCTTGATCCCTATTTAGGTTTTCAAACACACAAAATGAATACTAGCGCCTTTCTTTCGAGG  
AGCTCAAGGCATTTTTCAAAATCTGACAGTTTTTCTCACAACAACCCTGTGAGATTTAGGCCTATTAAAGGAAGG  
CAGGAAGAACTAAAGGAAGTAATTGAACGTTTTAAGAAAGATGAACACTTGGAGAAAGCCTTCAAATGTTTTGACT  
TCAGGCGAATGGGCACGGCACTATTTTCTCAACAAGAATAAAATGCAGGAGAAAATTATTCAAAGAACATGTATTT  
ATTTATTTGCGAATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAAT  
GGAGCCAAAATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCGAA  
CTTTCAGAAATTGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTCTATGTACTCCACAAGGAAA  
AACTGTGCTCAACTCTGGCTGGGTCTGTGCGTTTTATAAACCATGATTGCAGACCTAATTGTAAGTTTGTGTCA  
ACTGGTCGAGATACAGCATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTTCTTGTATTATGGA  
GATGGGTTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAGACGGGGCACTGGTGCTTTTAAA  
TCCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGGACTCAGAGAAACAGATAAACGTTTA  
AATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGTCAATCTGTCAGCTCTAACACTGATGCAGAT  
ACCCTCAGGAAAAAAACAATGCAAGTAAGTAAGGGGAGATTTGATAAGCATATCTTTTAAAGTATTTTCAACA  
ATTTGCTTTATAAAGTGTGCTTCAGTAGTTTTAACTTTTAAATACTCAGAGAGACTGGGACTTGTGAGCTTTGG  
CTGCACITCAAGGCTCTAGACGTGATTGAGTAGAGGCACAGTCTGTATCCCATCTCTAACTTCAGTACCGTCCT  
CTAGACTATTTTTCTTGAATACCTTGTTAACTGGATATGAGTTCTTCATCATATGTTCCAAGGTCATCATATGTT  
TTAAACATTTTCAAGGTGTTAGAGACTGTGATGATGTCGCTAAGTCCTGCAAGAAGACAAAAGGACTGAGTAGAA  
TTAAATTAGACTCTATACATTCCAGTGCCTAGCCAGTTTGTAGAAAAGATGATGGACTTGGGGAATTCATAGCT  
TCTGGCCTTAAGGCTTCCACCTTTTCATTGCTTGCTGACCTTTTTCAAACGAACTGACTCAGTTCAGCAGACCA  
CCAGTACCAGACTCAGAATTGTGATAGAGGAGCATTTTGAACAGTGCCGTATTGTGACATGCTGTATTGGCTACT  
CCAGAAAGTAGGAGTAAAGATGGAAAGGAGAAAAGCAACCTCTGAGATTCCAGTGGTGTGTGGGGGCAAGATC  
TGATGGAACTGAAAAAGAGAACGAAGACTAAACAAAAGAGAAAGGAAAGAGAAACCCTAAATGGGCAAAGGA  
AAGCACATCCTGTTTGCGGAGCTTTGAAATATTGGAACCATTTCTAATTGCTCCTGTTTTCTGGGTAACACCAG  
TTTTCTGTAGTTGCCACTAAAGCAGTAGACTCTTGAGTCTCACTTGCTCTGAGAGAGACAGAAGTTAGAAAGTT  
TTGACTTGGCGATTCCGAAAGTATGCCTTTGTTGGCACTTAAATGTCCAGTGAGACTTCTTGGCACCTTAGAGCC  
CTCTGAGATACTGATTATTTTAGGTTCTTCTCCCTACTTTCAGATGTTTTAGCCCAACACTGGGTGCTCTCTTC  
CACTACAGAGAATCCTGAAGAAAAGGGAAGGTGTTCCCATGATGGTGAATGTCACTGCCATGAATTCCTGAATC  
TACCTGCTGCTGGGAGTCAGAGTCCAAGCATAACCCGTGTAGCATAAAAGCAGCGCTGTAGCCCTATTCCAGTCT  
TTTTCGTTAATGTCCAGAGTGAACAACAAGAGTTAGTCAATCATTAAGTGTGACTGTTGATTCTCATAATAAAT  
GCAGCATAACGACC

180/5332  
**FIGURE 163**

GCCTGGGTTGCGCTGCCGGCCACGTCCCCGCGCCGGGCCTCAGGCTCCTTCCTACTGTCCGAGGGCCACCAGGCC  
GCCGGGGGCTGCTGCGCCCGGATGCGTCTGTTACTAGAGTGGAGAGTCTACCTTCGTCTCACATGTGCCACAAA  
GGATGGCATGGCCCGGGAGTGCCCCACCACGTGGCTTTACCCCCCTGCAAAGCCAGACTTCGCCAGCGACACAG  
TGTCAAGCCACAGCTCTCCAAGGAGGAAGATGGTCCAGGCTGGGAGCATCCCCTTAGCAGCAGCCTCTGATCCC  
TTGGCCAAGCAGGAGGGAACCATTAGCAGCCTGAGGAGCTGGCTGGCTGGGAGCCTCGGGGACCGCCAGCCTTG  
CTCCCAGCTCACCCACAAGATGTGGACAGCTCTTGTGCTCATTGGATTTTCTCCTTGTCTTATCTGAAAGCCA  
TGCGGCATCCAACGATCCACGCAACTTTGTCCCTAACAAAATGTGGAAGGGATTAGTCAAGAGGAATGCATCTGT  
GGAAACAGTTGATAATAAAACGTCTGAGGATGTAACCATGGCAGCAGCTTCTCCTGTCACATTGACCAAAGGGAC  
TTCGGCAGCCCACTCAACTCTATGGAAGTCACAACAGAGGACACAAGCAGGACAGATGTGAGTGAACCAGCAAC  
TTCAGGAGGTGCAGCTGATGGTGTGACCTCCATTGCTCCCACGGCTGTGGCCTCCAGTACGACTGCGGCCTCCAT  
TACGACTGCGGCCTCCAGTATGACTGTGGCCTCCAGTGCTCCCACGACTGCAGCCTCCAGTACAACCTGTGGCCTC  
CATTGCTCCCACGACTACAGCCTCCAGTATGACTGCGGCCTCCAGCACTCCCATGACACTTGCACTCCCCGCGCC  
CACGTCCACTTCCACAGGGCGGACCCCGTCCACTACCGCCACTGGGCATCCATCTCTCAGCACAGCCCTCGCACA  
AGTGCCAAAGAGCAGCGGTTGCCAAGAACAGCAACCCTGGCCACATTGGCCACACGTGCTCAGACTGTAGCGAC  
CACAGCAAACACAAGCAGCCCCATGAGCACTCGTCCAAGTCCTTCCAAGCACATGCCAGTGACACCGCGGCAAG  
CCCTGTACCCCTATGCGTCCCCAAGCACAAGGTCCATTAGCCAGGTGTCAGTGGACCAGCCTGTGGTTAACAC  
AACAAATAAATCCACACCCATGCCCTCAAACACAACCCAGAGCCCCGCCCCACCCCCACAGTGGTGACCACCAC  
CAAGGCACAAGCCAGGGAGCCAACTGCCAGCCAGTGCCAGTACCTCACACCAGCCCAATCCCTGAGATGGAGGC  
CATGTCCCCCACGACACAGCCAAGCCCCATGCCATATACCCAGAGGGCCGCTGGGCCAGGCACATCCAGGCACC  
GGAGCAGGTAGAGACTGAAGCCACACCAGGTACTGATTCCACTGGGCCAACACCCAGGAGCTCAGGGGGCACTAA  
GATGCCAGCCACGGACTCGTGCCAGCCAGCACCCAAGGCCAGTACATGGTGGTCACCACTGAGCCCCTCACCCA  
GGCCGTGGTAGACAAAACCTCTCCTTCTGGTGGTGTGTTACTCGGGGTGACCCTTTTCATCACAGTCTTGTTTT  
GTTTGCCCTGCAGGCCTATGAGAGCTACAAGAAGAAGGACTACACCCAGGTGGACTACTTAATCAACGGGATGTA  
TGCGGACTCAGAAATGTGAGGGGGGCGGGGGCCTGGCGGGAGGCCTGGCCCCCTTCTCGTCCTTTCTTTTGCCT  
TTGAGACCAACCAAGTGCTTCCAAATTCTTTTGGTGCAATTGAGGAGATATGCCAGATGCTTAAACACATTTAA  
TTGCTGTGAGATTAATTCCATGATCACTAAAGAGTTGCTGCTTTTTTTCATATTTATTTTGTAAATGATTCTGTG  
CCCAGGAGCAGCTGGGGGTTCCACCTCAGGGTGGGGCGGGCAGGACCCCGTCTCCCCAGGTGTCGGAGCCTGACC  
TGAATTAAAGTACTGACTGCTCGCC

[illegible]

182/5332  
**FIGURE 164B**

GGGGACAAGCGGACTCGCATCCAGGGCCGTGTCGCCCACCTCACTGGCATCCATGCAGTGGAGGAAGTCAGCCTG  
GAGGAGTTCTCAGCCCACCCATGTGCCCCTGACAATGGTGGCTGCTCCCACATCTGTATTGCCAAGGGTGATGGG  
ACACCACGGTGCTCATGCCCAGTCCACCTCGTGCTCCTGCAGAACCTGCTGACCTGTGGAGAGCCGCCCACCTGC  
TCCCCGGACCAAGTTTGATGTGCCACAGGGGAGATCGACTGTATCECCGGGGCCTGGCGCTGTGACGGCTTTCCC  
GAGTGGCATGACCAGAGCGACGAGGAGGGCTGCCCCGTGTGCTCCGCCGCCAGTTCCCCTGCGCGCGGGGTCAG  
TGTGTGGACCTGCGCCTGCGCTGCGACGGCGAGGCAGACTGTCAGGACCGCTCAGACGAGGCGGACTGTGACGCC  
ATCTGCCTGCCCCAACCAAGTTCCGGTGTGCGAGCGGCCAGTGTGTCTCTCATCAAACAGCAGTGGACTCCTTCCCC  
GACTGTATCGACGGCTCCGACGAGCTCATGTGTGAAATCACCAAGCCGCCCTCAGACGACAGCCCGGGCCACAGC  
AGTGCCATCGGGCCCGTCATTGGCATCATCCTCTCTCTCTCGTCATGGGTGGTGTCTATTTTGTGTGCCAGCGC  
GTGGTGTGCCAGCGCTATGCGGGGGCCAAACGGGCCCTTCCCGCACGAGTATGTCAGCGGGACCCCGCACGTGCCC  
CTCAATTTTCATAGCCCCGGGCGGTTCCAGCATGGCCCCCTTACAGGCATCGCATGCGGAAAGTCCATGATGAGC  
TCCGTGAGCCTGATGGGGGGCCGGGGCGGGGTGCCCCCTTACGACCGGAACACGTCACAGGGGCCTCGTCCAGC  
AGCTCGTCCAGCACGAAGGCCACGCTGTACCCGCCGATCCTGAACCCGCCGCCCTCCCCGGCCACGGACCCCTCC  
CTGTACAACATGGACATGTTCTACTCTTCAAACATTCCGGCCACTGCGAGACCGTACAGGCCCTACATCATTCTGA  
GGAATGGCGCCCCCGACGACGCCCTGCAGCACCAGCGTGTGTGACAGCGACTACAGCGCCAGCCGCTGGAAGGCC  
AGCAAGTACTACCTGGATTTGAACTCGGACTCAGACCCCTATCCACCCCCACCCACGCCCCACAGCCAGTACCTG  
TCGGCGGAGGACAGCTGCCCGCCCTCGCCCGCCACCGAGAGGAGCTACTTCCATCTCTTCCCGCCCCCTCCGTCC  
CCCTGCACGGACTCATCTGACCTCGGCCGGGCCACTCTGGCTTCTCTGTGCCCTGTAAATAGTTTTAAATATG  
AACAAAGAAAAAATATATTTTATGATTTAAAAAATAAATATAATTGGGATTTTAAAAACATGAGAAATGTGAAC  
TGTGATGGGGTGGGCAGGGCTGGGAGAACTTTGTACAGTGGAGAAATATTTATAAACTTAATTTTGTAAACAG

183/5332  
**FIGURE 165**

GGAGGGAATCCCTGGGTCCTCACAGGAACAGTCAGCAAGCCACACCTGACGCCTGCTGTGGGCCCATCCCTGCGG  
TGCTGGAGAAGACAGACAAGGCCTGGTCACTGCCTCTGCAGGGTCCCCAGTCCGTGGAAGGAGACAGTAATCTAG  
GCATTTTCGGTGGGGAAGCTGAGCTGTTCTCGTGTCTGAAGGCCAGGCGGGAACAGCCGTCTTCAGAGGGAAGG  
GAGAAAATGCACATCGCATCAGTGGAGAAGGGCCTGACTTCCCTCAGCATGGTGGAGGGAGAATGGGTGTGGGAG  
CTTCTGCCTGCCCTGGGGCACTGAGGCAGCATCGCCCGGGCAGTTGAAGAAAGTCCATGTTGCCAGTTTGGCTA  
TTTCCACTGCCGGGGAGGCCACTGTGGGAGGTCTTGTTCCCGAGAAATGCACCAGCCAGTCCCAGGACTCTCTGA  
AACCTTTCTGGGCTCCTTAGTCCAGCTCCAAGCTGCCCCCTCTGGCCCTGTGCTACACCTGGTGCTCCCTGCTCT  
CGCTTCAGCCATCTTCTCTAGAGTGATCAATGTTGATGGGACGAAGAGGCGGACCCTCCTGGAGGACAAGCTCC  
CGCACATTTTCGGGTTCACGCTGCTGGGGGACTTCATCTACTGGACTGACTGGCAGCGCCGCAGCATCGAGCGGG  
TGCACAAGGTCAAGGCCAGCCGGGACGTCATCATTGACCAGCTGCCCCGACCTGATGGGGCTCAAAGCTGTGAATG  
TGGCCAAGGTGCTCGGAAGGGAATACCTGCTTCCCAAGCGGTATTGAATCTTAATGCAGTGAAGAAGAAAGAGA  
AGCAGAAGAGCTCAGTTCCACGTTGAAATGGGCCGACCCCTCATATCCTACATGA

184/5332  
**FIGURE 166A**

CAGATAAGAAAACAAGCTCAGAGAGATGTGGTGACTTGCTCAAATAGTGACAGAACTTCCTCGGCCATATGGAGG  
GGTCATATAATACCCCTTGCTCTTCAGTTTGAGGAGAGCTTGTTTCATATCCATATCCCCTGTATTCCTGCTAA  
TCTGCTAATGCAGTAAATTGGAGGAAAACCTGTTACCAGGATAACCTGTAATGGGCAAGGAGCCACAAAGAAGAAA  
ACATTTCTTTTAATTTTTTAAACTTGGTTTGAAAGACCAGCATGTTTTGGAAATTTGATCTTCACTCATCATCCCA  
CATAGACACACTTCTAGAAAAGAGAAGATGTAACACTGAAGGAGTTAATGGATGAGGAAGATGTTTTACAGGAATG  
TAAAGCTCAGAACCGCAAACCTTATAGAGTTTCTGTTAAAGCAGAATGTCTCGAAGATTTAGTCTCATTATTAT  
AGAAGAACCACCTCAAGACATGGATGAAAAGATCAGATACAAGTATCCAAATATATCTTGTGAGTTGCTCACTTC  
TGATGTCTCCAGATGAATGATAGACTGGGAGAAGATGAATCCTTGCTAATGAAATTATATAGCTTCCTCCTAAA  
CGATTCCTCTTTGAATCCACTACTTGCCAGTTTCTTCAGCAAGGTGCTAAGTATTCTTATCAGCAGAAAACCAGA  
ACAGATTGTGGATTTCTTAAAGAAGAAGCATGATTTTGTAGACCTTATTATAAAGCACATAGGAACCTTCTGCTAT  
CATGGATTTGTTGCTCAGGCTCCTGACGTGTATCGAACCTCCACAGCCCAGGCAAGATGTGCTGAATTGGTTAAA  
TGAGGAGAAAATTATCCAGAGGCTTGTGGAAATAGTTTATCCATCGCAAGAAGAAGATCGACATTCAAATGCATC  
ACAATCACTTTGTGAAATTGTTTCGCTGAGCAGAGACCAGATGTTACAAATTCAGAACAGTACAGAGCCCGACCC  
CCTGCTTGCCACTCTAGAAAAGCAAGAAATTATAGAGCAGCTTCTATCAAATATTTTCCACAAGGAGAAAATGA  
GTCAGCCATAGTCAGTGCAATCCAGATATTGCTGACTTTACTTGAGACACGACGACCAACATTTGAAGGCCATAT  
AGAGATCTGCCCACCAGGCATGAGCCATTGAGCTTGTTCAGTAAACAAGAGTGTCTAGAAGCCATCAGAGGAAG  
ACTTGGATCTTTTCATGAACTCCTGCTGGAGCCACCCAAGAACATGTTCTTCAAGTATACATGGAATAACTTTTT  
GCATACACAAGTGGAATTTGTATTGCACTGATTCTTGCAAGTCCTTTTGAAAACACAGAAAATGCCACAATTAC  
CGATCAAGACTCCACTGGTGATAATTTGTTATTAAACATCTTTTCCAAAATGTCAATTAATAGAACGAATACT  
TGAAGCCTGGGAAATGAATGAGAAGAAAACAGGCTGAGGGAGGAAGACGGCATGGTTACATGGGACACCTAACGAG  
GATAGCTAACTGTATCGTGACAGCACTGACAAGGGCCCCAACAGTGCATTAGTGCAGCAGCTTATCAAAGATCT  
TCCCGACGAAGTCAGGGAACGATGGGAGACGTTCTGCACAAGCTCCTTAGGAGAACTAACAAGAGGAACACGGT  
AGATCTAGCCTTTTCTGATTATCAGATGCAACAAATGACGTCCAATTTTATTGACCAGTTTGGCTTCAACGATGA  
GAAGTTTGAGATCAAGATGACATTGGCAATGTTTCTTTTGATCGAGTATCAGACATCAACTTTACTCTCAATAC  
AAATGAAAGTGGAATATTGCCTTGTTGAAGCATGTTGTAAGGAAGAATAACAACAGTTTGATGATGGTGGCTC  
TGATGAGGAAGATATATGGGAGGAAAAGCACATCGCATTACACCAGAATCCCAAAGACGATCCAGCTCGGGGAG  
TACAGACAGTGAGGAAAGTACAGACTCTGAAGAAGAAGATGGAGCAAAGCAAGACTTGTGTTGAACCCAGCAGTGC  
CAACACGGAGGATAAAATGGAGGTGGACCTGAGTGAACCACCCAAGTGCAGCTAACTTTGATGTCCCAATGGA  
AACAACCCACGGTGCTCCATTGGATTCTGTGGGATCTGATGTCTGGAGCACAGAGGAGCCGATGCCAACTAAAGA  
GACGGGCTGGGCTTCTTTTTTCAAGTTCACGTCTTCCCTGAGCACAAAAGATTCTTTAAGGAGTAATTTCTCCAGT  
GGAAATGGAACACAGCACTGAACCCATGGACCTCTGACTCCAGTGCGGCTGCCCTGGCAGTGCAGCCAGAAGC  
GGCAGGCAGTGTGGCCATGGAAGCCAGCTCTGACGGAGAGGAGGATGCAGAAAGTACAGACAAGGTAAGTACAGAC  
AGTGATGAATGGCGGCATGAAGGAAACGCTCAGCCTCACTGTAGATGCCAAGACAGAGACTGCGGTCTTCAAAG  
TGAGGAAGGGAACTGTCTACCTCTCAAGATGCTGCTTGTAAGACGCAGAGGAGTGTCCCGAGACTGCAGAGGC  
GAAGTGCGCGGCACCCAGGCCTCCAGCAGCAGTCCCGAGCAGAGGACTGGCCAACCAAGCGCACCAGGTGACAC  
TTCAGTGAATGGCCCTGTATGACGGGTGACGTCTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGG  
GCTCTGGAGGGGTGAGCTGGAGCCCACCAAGCTGTCACTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGG  
CTTTATATTCTAGATTCTAAGACATTGTACAGAGAAATTCAGAAGTGTAATAATATTTGACATTGACAAATACCA  
AGAATTTTTGCGTATGTTTATATTGTATTGTTCTAAATAATGGGTAGCCTGTGAAATAAGATCTTGCCACCCATG  
TAATAATAGTAGTAATACTATAGTTAAATGGCTGTAAGAATAGTTTTATAAAAGTGAATACACAGATCTATTGT  
ATTTGAAACATAACTTTTGACAATTATTAGTGTGACCAAGTATTAGGCGGTTTTTCATACATTTTTTACCTTGTA  
AAAATTATGAATTCATTTTTTCTCCAGGCCGACAAGGAGTTGTAGAATGAAATGCCCTCTAAGTGTTATTTGG  
TTGTTCTAACTTACAAAAGTGATTTTGAATAAGAAATATTTGGTGTTCTTTTTATAACCAGTTTTTGATTGGTAA  
TTGTTTTCTGTATTGTTTAAACGGATCAAAAATGTAAGTCTATTGGTAGAGATTAAGTAAAGTATTTATTGCTA  
CATCATAGTTGATAAATTGATGTTATCGTAAAGCCATATGTTCTGTTCAAGTCTTGTTTGCTTGAAATGATTATT  
CCTACAAGTGAAACACTAGACTATTTGGAGTGTATATGGCTTGTTGTTTTGGGATTTTTTTTTTTTTTTTTGGCTT  
TTGTTTTGTTTGTTTTTTGTTCGTTTGGTAGTTTCTGCTTTTTTAAACCCATTACCAAAATTTACCTTGTT  
AACAAGCATACCAATGAACATTTTCAAGCAATCTGCATATTTAACAGACCTAAAATAAATCCTATTAGGCAAGT

185/5332  
**FIGURE 166B**

CAGTTGAAAATGCTCGTGCTGCTAATGGAATTAGAGTGCGTTCATTTTACAGGCTAGTATTTTAAAAGTAGAAAT  
CAAAATCTGGCACC GAAGCATGCTAATTGTTTACTGTACCTTGTGAGGTTTTCACTCATAAATTTAAACCAGTGT  
ATTTTTTTAGAACTGGTTTGTGTATATATATAGTGATTATGGATACTAATTCAATGTAATTTATAATTTTCTATG  
TCAATACAAAAATACATCACAGCCTTCTCAAACAGCTCAAGCAATATATTGTATATTGCCATATCGTCTGGTGAA  
AGGGTTAAATTACTTCACCTCTTGCACTTTTAGATGCAAATCAGTTTTTCATTTCTGTAATAGAAAATTATTCAC  
GTATTTTTTACATCATTGTGTTTTCTGACCAGTATTTAAAACCAAAGGATATTCTGAAAAATGGCCAACAATTT  
TTTTAGAAGTAGCATCCCAAGCAGCGTGCTAAACATTACATTGCATATGGAAATAAAAGAATCAAACGTCTAAT  
GCCTTATTATTTCTGATTTCTTTTTTCATTTTAAGTGGTGTGGAGATTCCAGCACTCCCAGGACAGTGGAGTCAG  
CAGTAAGCCCTGGGACAGGTGGCAAGGGTGGGTCCCTTGACCTTTGCACGCCTCCTCAGGAACCCCTTTCCCGG  
GTGAGCCCTCTCTGAAGAGACTGTCCTTGGGCCTCCTCTGGAAGCAGCACCCCCAGAGGACAGGGCTCCTCCTG  
CTTGCCCTCAGGGCTGCCTGACTTGAATGGCGTTGGACCTCGGGGATTACTGGTAGATAATATGCTCTGGTCTCGC  
CTGGTGGTGAGTTTTGCCAGCCATGGCCAGGGTTTGGCTCCACTGGTGGCACACGTGGCCTCCGTGGTATGGACC  
TGGTGGCTTCTCCATCCCACTGTGGCCTCTGTGGTATGGACCTGGTGGCTTCTCCATCCTACCCAAGGTAACAGT  
GTCTTGCTTCATCCCACTGACTGCTGGGAGAGAGCCTCTGGGACTTTTCTTTGGGGCATCATTTTGTTTTGTCTT  
TCGTAGCAGGGAAAGGATATGACAATGGGGAGGACAGTTCTTTTGGAGGTTGGAGGGGCCAAGCCAAGGACAGGA  
GCAAGTGTGCCCTCATTTTGTTTCTACTTTTAATTTCTGTGTGTTGGCCATACTGA

186/5332  
**FIGURE 167**

GGTACTCTCTGAAGATGGCAGAAGCTCACCAAGCTGTGGCCTTTTCAGTTCACGGTCACTCCGGACGGGATTGACC  
TGCGGCTGAGCCATGAAGCTCTTAGACAAATCTATCTCTCTGGACTTCATTCCTGGAAAAAGAAGTTCATCAGAT  
TCAAGAACGGCATCATCACTGGCGTGTACCCGGCAAGCCCCTCCAGTTGGCTTATCGTGGTGGTGGGCGTGATGA  
CAACGATGTACGCCAAGATCGACCCCTCGTTAGGAATAATTGCAAAAATCAATCGGACTCTGGAAACGGCCAACT  
GCATGTCCAGCCAGACGAAGAAGCTGGTCAGCGGCGTGCTGTTTGGCACCGGCCTGTGGGTGGCCCTCATCGTCA  
CCATGCGCTACTCCCTGAAAGTGCTGCTCTCTACCACGGGTGGATGTTCACTGAGCACGGCAAGATGAGTCGTG  
CCACCAAGATCTGGATGGGTATGGTCAAGATCTTTTTCAGGCCGAAAACCCATGTTGTACAGCTTCCAGACATCGC  
TGCCTCGCCTGCCGGTCCC GGCTGTCAAAGACACTGTGAACAGGTATCTACAGTCGGTGAGGCCTCTTATGAAGG  
AAGAAGACTTCAAACGGATGACAGCACTTGCTCAAGATTTTGCTGTCGGTCTTGGACCAAGATTACAGTGGTATT  
TGAAGTTAAATCCTGGTGGGCTACAAATTACGTGAGCGACTGGTGGGAGGAGTACATCTACCTCCGAGGACGAG  
GGCCGCTCATGGTGAACAGCAACTATTATGCCATGGATCTGCTGTATATCCTTCCAATCATTACAGGCAGCAA  
GAGCCGGCAACGCCATCCATGCCATCCTGCTTTACAGGCGCAAACCTGGACCGGGAGGAAATCAAACCAATTCGTC  
TTTTGGGATCCACGATTCCACTCTGCTCCGCTCAGTGGGAGCGGATGTTTAATACTTCCCGGATCCCAGGAGAGG  
AGACAGACACCATCCAGCACATGAGAGACAGCAAGCACATCGTCGTGTACCATCGAGGACGCTACTTCAAGGTCT  
GGCTCTACCATGATGGGCGGCTGCTGAAGCCCCGGGAGATGGAGCAGCAGATGCAGAGGATCCTGGACAATACCT  
CGGAGCCTCAGCCCGGGGAGGCCAGGCTGGCAGCCCTCACCAGCAGGAGACAGAGTTCCCTGGGCCAGGTGTCTGTC  
AGGCCTATTTTGGACGTGGGAAAAATAAGCAGTCTCTTGATGCTGTGGAGAAAGCAGCGTTCTTCGTGACGTTAG  
ATGAAACTGAAGAAGGATACAGAAGTGAAGACCCGGATACGTCAATGGACAGCTACGCCAAATCTCTACTACACG  
GCCGATGTTACGACAGGTGGTTTGACAAGTCGTTACGTTTGTGTTCTTCAAAAACGGGAAGATGGGCCTCAACG  
CTGAACACTCCTGGGCAGATGCGCCGATCGTGGCCACCTTTGGGAGTACGTCATGTCCATTGACAGCCTCCAGC  
TGGGCTATGCGGAGGATGGGCACTGCAAAGGCGACATCAATCCGAACATTCCGTACCCACCAGGCTGCAGTGGG  
ACATCCCGGGGGAATGTCAAGAGGTTATAGAGACCTCCCTGAACACCGCAAATCTTCTGGCAAACGACGTGGATT  
TCCATTCTTTCCCATTCGTAGCCTTTGGTAAAGGAATCATCAAGAAATGTGCGACGAGCCCAGACGCCTTTGTGC  
AGCTGGCCCTCCAGCTGGCGCACTACAAGGACATGGGCAAGTTTTGCCTCACATACGAGGCCTCCATGACCCGGC  
TCTTCCGAGAGGGGAGGACGGAGACCGTGCGCTCCTGCACCACTGAGTCATGCGACTTCGTGCGGGCCATGGTGG  
ACCCGGCCCAGACGGTGAACAGAGGCTGAAGTTGTTCAAGTTGGCGTCTGAGAAGCATCAGCATATGTATCGCC  
TCGCCATGACCGGCTCTGGGATCGATCGTCACCTCTTCTGCCTTTACGTGGTGTCTAAATATCTCGCTGTGGAGT  
CCCCTTTCCTTAAGGAAGTTTTATCTGAGCCTTGAGATTATCAACAAGCCAGACCCCTCAGCAGCAAGTGGAGC  
TGTTTGACTTGGAGAATAACCCAGAGTACGTGTCCAGCGGAGGGGGCTTTGGACCGGTTGCTGATGACGGCTATG  
GTGTGTCTGATCATCCTTGTGGGAGAGAACCTCATCAATTTCCACATTTCTTCCAAGTTCTCTTGCCCTGAGACGG  
ATTCTCATCGCTTTGGAAGGCACCTGAAAGAAGCAATGACTGACATCATCACTTTGTTTGGTCTCAGTTCTAATT  
CCAAAAAGTAAATTCCTACTGGAGCTGCTGGGAAGGAAAACGAG



187/5332  
**FIGURE 168**

CGGCCGAGGCTGCGGCCATGGCAGCATCTTCCTGACGGTCACCTTAGGGCGGCTGGCGTCCGCGTGCAGCCACA  
GCATCCTGAGACCTTCGGGGCCCGGAGCAGCCTCCCTTTGGTCTGCTTCTCGAAGGTTCAATTCACAGAGCACTT  
CATATCTACCAGGATATGTTCCCTAAAACATCCCTGAGTTCACCACCTTGGCCAGAAGTTGTTCTGCCAGACCCAG  
TTGAGGAGACCAGACACCATGCAGAGGTCGTGAAGAAGGTGAATGAGATGATCGTCACGGGGCAGTATGGCAGGC  
TCTTTGCCGTGGTGCACCTTGCCAGCCGCCAGTGGAAGGTGACCTCTGAAGACCTGATCTTAATTGGAAATGAAC  
TAGACCTTGCGTGTGGAGAGAGAATTCGACTGGAGAAGGTCCTGCTGGTTGGGGCAGACAACCTTCACGCTGCTTG  
GCAAGCCACTCCTCGGGTTAATGGCTGTGAAGTGCTGGGCTTTGTCTGGGGCTCCAGGGCTGGACATGCAGACAGT  
GGTCACAGTGCAATTAGGCCAGAAAGGATCTTGTTTCGAGTAGAAGCCACAGTCATTGAAAAGACAGAATCATGGC  
CAAGAATCATTATGAGATTCAGGAAAAGGAAAACTTCAAGAAGAAAAGAATCGTCACGACCCCGCAGACTGTCC  
TCCGGATAAACAGCATTGAGATTGCTCCGTGTTTGTGTGATTACCGAGTTAATACTTACAAAAGGATAAAAAATA  
AACTCCTGCTTCCCAAGG

188/5332  
**FIGURE 169**

GGCGCAGAAGCGGGACGTCGGCTTCTAGGGGCCAGGCCGGCGGGCGATGGCCTCGGCAGCTGTGGAGAGCTT  
CGTGACCAAGCAACTGGACCTGCTGGAGCTTGAGAGAGACGCGGAGGTGGAGGAGCGCAGGTCCTGGCAGGAGAA  
CATCTCTCTGAAAGAGCTCCAGAGCCGAGGCGTGTGTTTGGCTGAAGCTGCAGGTATCCAGCCAGCGCACTGGGCT  
GTACGGACGGCTGCTGGTCACCTTTGAGCCCAGGCGATACGGGTCCGCGCAGCTCTTCCCAGTAACAGCTTTAC  
TTCTGGTGATATCGTGGGCCTGTACGATGCTGCTAATGAGGGCAGTCAGCTGGCCACTGGGATCTTGACCCGGGT  
CACCCAGAAGTCGGTCACGGTGGCCTTTGATGAGTCCCACGATTTCCAGTTGAGCTTGGACCGAGAGAATTCCTA  
CAGACTGTTAAACTTGCCAAATGATGTCACCTTACAGGCGACTGAAAAAGCCCTGATTGCTCTAAAGAAGTATCA  
TTCTGGCCCAGCCTCCTCACTCATAGAAGTGCTCTTTGGCAGATCTGCTCCCAGTCCTGCCAGTGAAATACACCC  
GCTGACATTCTTCAACACCTGCCTGGACACCTCCCAGAAAGAAGCGGTTTCATTTGCGCTGTCTCAGAAAGAACT  
TGCCATCATCCATGGACCTCCTGGCACTGGGAAAACACGACTGTGGTTGAGATCATTCTTCAAGCTGTGAAACA  
AGGCTTAAAGGTTCTGTGCTGCGCCCCCTCCAACATCGCGTGGACAATCTGGTGGAGCGCCTGGCTCTGTGTAA  
GCAGCGGATTCTGCGCCTGGGACACCTGCCCCGCTCCTGGAGTCCATTACAGCAGCACTCCCTGGATGCGGTTTT  
AGCGCGGAGCGACAGTGCCAGATTGTTGCAGATATCAGGAAGGACATCGACCAGGTCTTTGTGAAAAACAAAA  
GACCCAGGATAAGAGAGAGAAAAAGTAATTTTCGAAATGAAATTAAGCTGTTAAGAAAAAGAACTGAAGGAGAGGGA  
AGAAGCAGCTATGCTCGAGAGCCTCACTTCGGCAAACGTGGTCCTTGCAACAAACACAGGTGCGTCTGCCGATGG  
CCCCCTGAAGTTGCTGCCCCGAGAGCTACTTCGACGTGGTGGTCATTGACGAGTGTGCCAGGCCCTCGAGGCGAG  
CTGCTGGATCCCCCTGCTGAAGGCCAGAAAGTGATCCTGGCGGGCGATCACAAGCAGCTGCCCCCACCACAGT  
CTCTCACAAGGCTGCGCTGGCAGGACTGTCACTCAGCCTGATGGAACGCCTGGCTGAGGAGTACGGCGCGAGGGT  
GGTGCGGACACTGACGGTGCAGTACCGCATGCACCAGGCTATCATGCGCTGGGCCTCAGACACCATGTACCTTGG  
GCAGCTCACAGCCCACTCTTCCGTGGCAAGGCACCTCCTGAGGGACCTCCCAGGTGTGGCTGCCACAGAAGAGAC  
GGGTGTGCCCCCTGCTCTTGGTGGACACCGCCGGCTGCGGGCTGTTTGGAGCTGGAGGAGGAGGACGAACAGTCGAA  
AGGGAACCTGGCGAAGTCCGCTCGTCAGTTTGCACATCCAGGCTCTGGTGGACGCTGGTGTTCAGCCCGTGA  
CATTGCTGTGGTCTCGCCATACAACCTCCAGGTGGACCTGCTCAGACAGAGCCTTGTGCACAGGCACCTGAGCT  
TGAAATCAAGTCTGTGATGGCTTCCAAGGCCGAGAGAAGGAGGCCGTGATACTGTCTTCGTGATCCAACAG  
GAAAGGTGAAGTTGGTTTTCTTGCTGAGGACCGGAGGATCAACGTGGCTGTACCCGTGCCGACGCCACGTGGC  
GGTCATCTGTGACTCCCGTACTGTCAACAACCATGCATTTTGAAGACCCTGGTGGAGTATTTACACAGCATGG  
GGAAGTACGCACGGCCTTTGAGTATCTTGACGATATTGTCCCAGAAACTATTCCCATGAGAACTCCCAGGGTTC  
CAGCCACGCTGCCACCAAGCCCCAGGGACCTGTACGTCCACCAGGACCGGAAGCCAGCGGCAGGAGGGAGGCCA  
GGAGGCTGCAGCACCTGCCAGACAGGGCCGGAAGAAGCCGGCTGGGAAGTCTCTGGCCTCTGAAGCTCCATCTCA  
GCCCAGCCTCAACGGAGGCAGCCAGAGGGAGTGGAGAGCCAAGATGGCGTGGACCACTTCCGGGCCATGATAGT  
GGAGTTGATGGCCAGCAAGAAGATGCAGTTGGAGTTTCTCCTTCCCTCAATTCCCACGACAGGCTGCGGGTCCA  
CCAAATAGCCGAGGAGCACGGGCTGAGGCACGACAGTTCCGGGGAAGGGAAGAGGAGGTTCACTGCTGAGCAA  
GAGGGCCCCGCGACCCCGAGCAGCCTGGGACCCCCAGCAGGGACCGGTGGCCAGCCCCCTCTCCAGCCAGTGCC  
CCCTACCCCTGCGCAGACAGAGCAGCCTCCCAGGGAGCAGCGTGGCCAGACCAGCCTGATCTGAGGACGCTGCA  
CCTGGAGAGACTGCAGAGGGTCAGGAGCGCGCAGGGGCAGCCCCGCCAGCAAGGAGCAGCAGGCCTCAGGGCAGCA  
GAAACTTCCAGAAAAGAAAAAGAAAAAGCCAAAGGACATCCGGCCACAGATCTGCCACGGAGGAGGACTTTGA  
GGCCTGGTTTTCTGCCGCCGTTAAGGCTGATAACACCTGCGGCTTTGCCAAGTGCACAGCCGGCGTCACAACCT  
GGGCCAGTTCTGCCAGCTCTGCAGCCGCCGCTACTGCCTCAGCCACCACCTGCCGAGATCCATGGCTGCGGTGA  
GAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGAAGGGGTCTCTATGCCGGCAGCGGGACCAAGAACGG  
ATCCCTGGACCCAGCCAAGAGGGGCCAGCTGCAGAGGAGGCTGGATAAGAAGCTGAGTGAGCTCAGCAACCAGAG  
GACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGATCCTTGACGCCCCGCGGAGCTCTCTCCATGGTAG  
CCCAGGGCGCTGGCAGACCATGCTCCGCTCCACCAGGGCCACAGAGGAGCGGAGGGGCCATGGGGGAGGAGCG  
GAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCAGGGATAAGCTTTTCCGATGTCACAATGTGGAGGAAAG  
CACCTGGGGGACAACAGTGCTCGTGAGGTGGGGCTTGGGAAATGCACGTCCCTTCCCCTTACTCCCCGCCAAAC  
CCACATCCCAGCCTCTGGATCCTGGGGAAGTTCCAGTCC

189/5332  
**FIGURE 170**

CCTCCTCCTACTCCCCTCCCCCTCCCCCTCCTGCCGGGCCAGGAATTGGGTTTGGGGCGGGTTCTGCTTCCAAAG  
CCATCTCTTCCAGCAGGAGAGGGCTCTACTCTGAGCTCCTATTTTCCAAGGCTCCGGGCCGCGCTCGGCGCTGGC  
CTGCTGCCCCGGCGGGTCCGCCGGCCGGAGGCGGGAGTCCACAGGAAGAGCCCTCCACAAAAGGAGGCCTCGGCGG  
ATCAGGACAGCTGCAGGTGGGTGTGCAGACTGGTGAGCTGCCAGCAGGGGCCAGACGCGCCAGGCCTGGAGATG

GCTGGAAACTGCTCCTGGGAGGCCCATCCCCGCAACAGGAACAAGATGTGCCCTGGCCTGAGCGAGGCCCCGGAA  
CTCTACAGCCGGGGCTTCCTGACCATCGAGCAGATCGCGATGCTGCCGCCTCCGGCCGTCATGAACTACATCTTC  
CTGCTCCTCTGCCCTGTGTGGCCTGGTGGGCAACGGGCTGGTCTCTGGTTTTTCGGCTTCTCCATCAAGAGGAAC  
CCCTTCTCCATCTACTTCCTGCACCTGGCCAGCGCCGATGTGGGCTACCTCTTCAGCAAGGCGGTGTTCTCCATC  
CTGAACACGGGGGGCTTCCTGGGCACGTTTGCCGACTACATCCGCAGCGTGTGCCGGGTCTGGGGCTCTGCATG  
TTCCTTACCGGCGTGAGCCTCCTGCCGGCCGTCAGCGCCGAGCGCTGCGCCTCGGTTCATCTTCCCCGCTGGTAC  
TGGCGCCGGCGGCCAAGCGCCTGTGCGCCGTGGTGTGCGCCCTGCTGTGGGTCTGTCCCTCCTGGTACCTGC  
CTGCACAACTACTTCTGCGTGTTCCTGGGCCGCGGGGCCCCGGCGCGCCTGCAGGCACATGGACATCTTCTCTG  
GGCATCCTCCTGTTCCTGTCTGCTGCCCGCTCATGGTGTGCTGCCCTGCCTGGCCCTCATCTGCACGTGGAGTGC  
CGGGCCCCGACGGCGCCAGCGCTCTGCCAAGCTCAACCACGTATCCTGGCCATGGTCTCCGTCTTCTGGTGTCC  
TCCATCTACTTAGGGATCGACTGGTTCCTCTTCTGGGTCTTCCAGATCCCCGGCCCCCTTCCCCGAGTACGTCACT  
GACCTGTGCATCTGCATCAACAGCAGCGCCAAGCCCATCGTCTACTTCCTGGCCGGGAGGGACAAGTCGCAGCGG  
CTGTGGGAGCCGCTCAGGGTGGTCTTCCAGCGGGCCCTGCGGGACGGCGCTGAGCTGGGGGAGGCCGGGGGCAGC  
ACGCCCAACACAGTCACCATGGAGATGCAGTGTCCCCCGGGGAACGCCTCCTGAGACTCCAGCGCCTGGAGGAGG  
CAGGGGCAGGAAGCGGCCTCCAAGACCCTTCGCCTTGGGACAGGAATGGGCACCTGCTTCTGAGTCCATACAGGA  
GAAGAAAGATCTGTTTCTCTCCTCGGGCCTCCTTCTCCCTGGGCTGGGGACTCCAGGGGTGGCTGGGAGACTGG  
GCAGCCACCAGCAAACAGACCCTGTGGCCCCCTGCCCGGCTCCCCACCCATTCTGCTCCCTAGAGACCTCTTGT  
ACAGAAGTTGCCCCCAGGTGGTGGGGCCCCCTCCTTGCCCTAGGCTGGTTGGTAAAAGAGAGGAGGTCAACACCCA  
GCCTAGCCACCTCTGCCTCTTGGGTGAGCCCTCCTTGACTGTGTCCAGCCAGCACCAGGCCAGCAGCCTCATCC  
CTGCCATTAGGGCTGTTCCAGAGATTGATCCTCTTAAGGCATTATCAGTGAGCAAATGTGAAGGAAATGGTGT  
CTGGAAGAAAGTTCTGGTTACATGCCCTGTAGCTAAGTCTTTCTGCAAACAACCTCCCTTCCCCCGCTCGAGTC  
ATTTGGTGACTTTTGATGGGGGGATTCTGGTTATGTCAAGGCTCTGGAGACAGGAAGGGCCTTTGGCCGCTTGG  
GTAGTTGACCTGCCTTTTCTGACTCCGGGACGAGCCAGTCTTAGGCTGCCTCCGGGAGCACTTGAGGTATCCCGC  
AGGCCATGAGGACCCACTGGGCAGCTCCTGGACAGCCTCTTGGCTCCAGCCCCACCCGAAAGTGGACACTGGCT  
CCGCCCTGGCCACCTGGGGACTGGCACTGTGGTGCACAGTGGCCCAATGTGGCCAACGGGAAGTTTTATAAAGAC  
AAAATGTATATCAATAAACATTTTATAACTTGC

190/5332  
**FIGURE 171**

CTTGCAATTGATTCAATTGAATTCCTGAAGCGAAGCTACACCAGCACATGGGTGGCTTTGAAAGGGGCCTCCCAGAG  
CCTGGGGCTCCAGAGGAATTCCTCCCAACCTTTGTTGAGCAGCTACTGTATGCCACGCTTTGTGCTAGAGGA  
CAGGACTGATGCCACCCCTGCCCCAGGCACTGACAGGGTAGCAGAGGGAAGACACATGAGCTGCTTTTAAATTT  
TTTTTAGAATTAATAGAGACGGGGTCTCACTCTGTCACTATGTTGCCCAGGCTAGTTTTGAACTCCTGGCCTCAA  
GCAGTCCTCCTACCTCAGCCTCCCAAAATGCTGGGATTACAGGTGTGAGCCACCGTGCTTAGCCATGAATTGATT  
TTAAAACCTTAAATGAGGGGGCCAGGTGTTGTCTTTCCGTTTGCCTGAGTGACGCGGGTCTTCTCCAGGACATCCG  
GCCACAGATCTGCCCACGGAGGAGGACTTTGAGGCCCTGGTTTCTGCCGCGTTAAGGCTGATAACACCTGCGGC  
TTTGCCAAGTGACACAGCCGGCGTCACAACCCTGGGCCAGTTCTGCCAGCTCTGCAGCCGCGCTACTGCCTCAGC  
CACCACCTGCCCAGATCCATGGCTGCGGTGAGAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGG  
GTCTCTATGCCGGCAGCGGGACCAAGAACGGATCCCTGGACCCAGCCAAGAGGGGCCAGCTGCAGAGGAGGCTG  
GATAAGAAGCTGAGTGAGCTCAGCAACCAGAGGACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGCATCC  
TTGCACGCCCCGCGGAGCTCTCTCCATGGTAGCCAGGGCGCTGGCAGACCATGCTCCGCCTCCACCAGGGCCAC  
AGAGGAGCGGAGGGGCCTATGGGGGAGGAGCGGAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCAGGGAT  
AAGCTTTTCCGATGTCACAATGTGGAGGAAAGCACCTGGGGGACAACAGTGCTCGTGCCAGGTGGGGCTTGGGAA  
ATGCACGTCCCTTCCCCTTACTCCCCGCCAAAACCCACATCCCAGCCTCTGGATCCTGGGGAAGGTTCCAGTCCC  
TGGAGAATACCCAGGGCCTCAAACCTGAAGTCACTCCTCCAATGTCTGGGACTTGCCAGCTCAGCCCGTTAGGAT  
GAGGGTGCTGAGAGGAAACAGGAAACAAGACTGCGAATGGCGCTCAGGCAGGGAGCAGGGAGTGGCGTTTGGCTT  
GCACGTTCCCATGTGGCCAGATGCTGGGGCCACTTTCCTTCTGTCTGCTGGTGACTGCAGTGTTCCCCCTCCTCC  
TCACCACGGGGCTCCTGTGAGTCTGGGGGGCACCTCTTCTGGCCTGTGCACCTCTCTCTGGCTTATAAAGGTGC  
CTGGCCTGTGCCAGCCCCCTCCTTGTGCGCCTCACCGTGGGGACCAGGTGAGCCGGCTCTCCACGTGGTTGTCC  
CGGGAAAGCTGCCCCACAGCCTCAGCATCTTCAGCACTTACCGATCCAGAGCCTCCCGGCCTTCTCCGGTGTCTT  
GTACCAACTCTTCTATTTAAGAGAACCTCAGATGATGTACCTGAGCCTCAGGGTTTTGTTTCAGAGGGATATAAA  
TTATTTAAAAATTAAATGAAAACGTTGCACACTG

191/5332  
**FIGURE 172**

ATGGTCACACAGCAGCAGTCCAAGTGCCTGGGGCAGTCCGATGCCCACATCCCCCTTGAGGTCCCAGGAGGCCAC  
TCCGTCTCTAGTACTCTCTTCTCCAGCATCTCCAGTTCTCCACTGCCCCGCTTTTCCTGCTGCCCCACTTGCT  
GGTCCCCCTGGAGTCCCCCAGACATCATCGCTCCTGCAGTCAGCAAGGATTGCCCCCTTCTGACCCTACAGCCC  
CCGTTCCAGGCAGTTCCTAGCACCATAAGGACTCTGGCCACCCACACGCTGAGCTCCACAGGGCAGGTCCAATG  
CCCAGCACACAGGGGAAGCTCAGCCCATGTGCCGGCGGAACGTTGAAGACCTACTGTGTTTCAGGGCCGTGAGCCA  
GGGCACAACCACCCCTTGAGGAGCACACTCTGCCTCAACCCTGGAGTGGCTCCGAAATGAGTCTTCAGTCCACAAG  
ACTGAGGGTTGCCAATCCTTCTCGGGCTGCCAGAGCCCCCTTCTGCCCAAGTGGCAGCTGGCCCCGTGGATCTG  
CAGGGCAAAGGAGCAATTGCCTCTCTGTGCGTTTCTATTTCTGCACCTTCCGCTTCTGGCTGGTGGCCGGCTG  
GCTGCTTCAGAAAGTTCTGGAATCCGCAAGGCCAGCTGGTCTGGCTGGGGCCCAGCAGCACCTCAGCTGGAATG  
TGGCGTTTTTCGTTGCAGGGAGAAGTGGTGAACCTGCGGCCCTCAGGCTTGTTACCTGCTTCACTGGGGGAGGCTT  
CGAAGGTGGCCCAGCTCAGCAGACACTGTGTGGATGTACAGCCCAGTAGTTCAGAGGACCCTGGACCACCACCT  
AGACAGAGAAGGCCACAGCCTTGGCAATGTCCAGACCCTTCTCTCTGATCCCACAGGAGGTCTTGAAGTGGA  
CCTACTTTTATCTACTGCAAAAGGCCTCAAGAGTGGATTTTGTGTCTCCCTCTTAGAGCCCTCACTGGCATTCTCT  
TGGCAGCAGGATACCCCTGACCCCGAAACCCTGGGCAGCTGCTGTCCAACGATCAGTTCCCTGTTTGTTCATC  
ACGCACTCCACCTTCCACTCCTGTCTGCCTTTGCAGCAGGATCCCCCTGCCCCCTAACACAGAAGGAGGTGAGA  
CGACCGCGGATGCACAAGGTGGGACGACCGCGGCTGCGCAAGGTGGGACAACCGCGGCTGCGCAAGTTGGGACGA  
CAGCGGATGTGCAAGGTGAGACGACCGCAGATGTGCAAGGTGGGACGAGGGACGACCACGGATGCACAAGGTGAG  
ACGACTGCAGATGCCCAAGGGGCTGCAGCATTGTGTACACTTCTGGTACAATTCAGACAGCCTGGGCCAGGA  
CATAGAGAGACCCCAAAGGGAGCCGCTTCAGCAGCAAACAAGCCACAGCCTGTGTGCAGGGAGCTGACCAGACGC  
CCTGCAGCCGCCGGGAAGCTGGCAGAGACAGATGGCGTCTGTGCTCAATGGGGCACACAGGGAGCAGAGGCCTCC  
GCTGGAGCCCACCCGGCCACCCGCCCGGCAGAGGCTCCTGGGCCGGCCATGCAGGCAGGGAGAGGAGCGCCAGGA  
GCTGTAACACGCCAGGTGTGGGTGCGAGCTGAGCAAGTGTGACAGCTGGTGTCCCATGCTCCTGGGGGCAGCA  
TCTCGCAGCCACTCCAGGGGCCATGTGCACGCTGCCTGCCACCCGGCCCCCGCTCCCCCAGATGGAGCTTTGGCC  
GTCACCTGTTGTGCGGTGCGGACAGACACAGCCCGTGGGAGCACACCCAGGGCCCCCGGCTCCTCACTCACAT  
GGAAGTGAGACCCACAAACCACTGCGGTGGAGACCCACCGGTTACAAGCAAAGAAACCACTCTCACTCCTCAA  
ATAAAAGGGGAATACTATTACAAGGATGCAAAAGACGAGTTCTCAGAATCCTGTAAACCTTATGTAGCCCCAACT  
GCTCAATGCACAGGCAAAATCAACTCAAGAAATCGGCGTCAGAGAGGGGCTGGGAACGAGCCTCCAAGTTCCAGT  
TTGGAATCTCTCTTACCACATGA

192/5332  
**FIGURE 173**

ATGGAAGATTCCCACAAGAGTACCACGTCAGAGACAGCACCTCAACCTGGTTTCAGCAGTTCAGGGAGCTCACATT  
TCTCATATTGCTCAACAGGTATCATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCC  
TCACAGAAAGCCCACGGGATCCTAGCACGGCGCCCATCTTACAGAAAAATTTTGAAAGACTTATCTTCTGAAGAT  
ACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGCTCACTTCTATGTCTGTTCCAACCTCCC  
ATCTATCAGACTAGCAGCGGACAGTACATTGCCATTGCCCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACA  
GATGGAGTACAGGGACTTCAGACATTAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAACCTATTCTTCAG  
TATGCACAGACCTCTGATGGACAGCAGATACTTGTGCCCAGCAATCAGGTGGTCGTACAACTGCATCAGGAGAT  
ATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAACTGTGGTGATGACATCTCCTGTG  
ACTCTCACCTCTCAGACAACTAAGACAGATGACCCCCAATTGAAAAGAGAAATAAGGTTAATGAAAAACAGAGAA  
GCTGCTCGAGAATGTCGCAGAAAGAAGAAAGAATATGTGAAATGCCTGGAAAACCGAGTTGCAGTCCTGGAAAAT  
CAAAATAAACTCTAATAGAAGAGTTAAAACTTTGAAGGATCTTTATTCCAATAAAAGTGTTTGA

193/5332  
**FIGURE 174**

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT  
TGTAACCTGCTGAACCTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA  
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGC GG GGGCCCT  
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG  
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCACACCTGCAGT  
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA  
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG  
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTGACTTGGAACTTCTTGGCAACAAGTCTGGATCCTG  
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA  
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA  
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAATGCTAA  
GTGGGAGAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGTGTTGGTTTTTTTTTTTTTTGGCAA  
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGTAGAGACAGGGGAGACAGGGTCTCACTGTGTTGCCTAG  
GCCGGTCTTGAACTCCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA  
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTGTTATTCTTAGCGTCACTGG  
TCTGGCTTTTCAGAATTAACATACAAGGTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC  
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC  
ATAAACTATTTGAGGTGGTTAAGGTCTTGGGTTCATTTTCTTAATACTTTGCTGAATATTGTAGATTGTAGG  
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCATAACATCAAGC  
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCACCCCTGTTGGAAGATGATT  
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAATCATCACAAGTGCCCTCTGAAAGCGAGTGTTAGGTTGGTTAG  
AGGGTTTAATATTTTCTGCAATGGTTGTAGGAATTTAATAAATGTAGTATATTTCTGAGATGATTTTGTA  
AGTACTATTTTAAATATCAAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

194/5332  
FIGURE 175A

CGCCCGAGTTGCCGGAGACGCCCCGGCCCTCTCTGCTGCCGGCTGGGCTGCCACCGCCCTCCCTCCCCGCCCTG  
CCGCCCTGGGAGCTCCCCGGCCGTCGCCGCGGGGCCCGGGACTCGCTCGCTCCTCCCTCCTTCCCACCGGGCTAG  
GGCGGCGGCGGCAGCGGGGGCGGCAGAGACCATCACGGGAGGAGGCAGCTGCGGCGGGGCCGAATCCTAATGTAC  
CTGGCTAGCTGGTGGTGAGTAGGGGCTTTGGGGCCAACTTGGTGGGCTCCCCAAGGAAACCCCTTTGAAACCAAT  
GGATGCATTACAGGGCTCGGGTCTCAAGAGGAAGTTTGATGATGTGGATGTGGGCTCATCAGTTTCCAACCTCAGA  
TGATGAGATCTCCAGCAGTGATAGTGCTGACAGCTGCGACAGCCTCAATCCTCCTACCACTGCCAGCTTCACACC  
CACATCCATCCTGAAGCGGCAGAAGCAGCTGCGGAGGAAGAATGTACGCTTTGACCAGGTGACTGTATACTACTT  
TGCCCGGCGCCAAGGTTTACCAGTGTGCCAGCCAGGGTGGTAGCTCTCTGGGCATGGCCCAGCGCCATAACTC  
TGTACGGAGCTATACACTCTGTGAGTTTGGCCAGGAACAGGAGGTGAACCATCGAGAGATTCTGCGTGAGCACCT  
GAAGGAAGAGAACTCCATGCCAAGAAAATGAAGCTGACCAAGAATGGGACAGTGGAGTCGGTGGAGGCTGATGG  
CCTGACGCTGGATGATGTGTCAGATGAAGATATTGATGTGGAAAATGTGGAGGTGGATGATTACTTCTTCTCTGCA  
GCCTCTGCCCCACCAAACGGCGACGGGCCCTGCTGAGGGCTTCTGGGGTCCACCGTATTGATGCTGAAGAGAAGCA  
AGAACTTCGAGCCATCCGCCTGTCACGGGAAGAATGTGGTTGTGACTGCCGACTGTATTGTGACCCAGAAGCGTG  
TGCTTGACGCCAGGCTGGGATTAAATGCCAGGTGGATCGCATGTCTTTCCATGTGGCTGCTCCCGGGATGGCTG  
TGGGAACATGGCAGGACGCATTGAATTTAATCCAATCCGGGTCCGGACTCATTACCTCCACACCATTATGAAGCT  
GGAGCTGGAGAGCAAGCGGCAGGTGAGCCGCCCAGCAGCCCCAGATGAGGAGCCCTCCCCGACTGCCAGTTGCAG  
CCTGACAGGAGCACAGGGCTCTGAGACCCAGGACTTCCAGGAGTTTATTGCTGAGAATGAGACAGCAGTGATGCA  
CCTGCAGAGTGACAGAGAACTGGAGCGGCTCAAGGCAGAAGAAGATTCCAGCGGCTCTAGTGCCAGCCTGGACTC  
GAGCATCGAGAGCCTGGGTGTGTGCATCCTAGAGGAGCCTCTGGCTGTCCCCGAAGAGCTGTGCCAGGCCTTAC  
AGCCCCCATTCTCATCCAGGCTCAGCTGCCCCAGGCTCCTCTGTCTGTGTTTTACCGAGAACTCAGACCACCC  
AACTGCCTCAACGGTGAACAGCCCATCCTACTTGAACAGTGGGCCCTGGTCTATTATCAAGTGGAGCAGAGGCC  
AGTCTTGGGAGTGAAAGGAGAGCCTGGTACGGAAGAAGGCTCAGCCTCTTTCCCAAAGGAGAAGGATCTGAATGT  
CTTCTCTCTCCCTGTTTACCTCACTCGTGGCTTGTAGCTCCACAGACCCAGCTGCCCTCTGTAAATCAGAGGTGGG  
GAAAACACCCACCCTAGAAGCTCTATTGCCGAAGATTGTAACCCTGAGGAGCCTGAAAATGAAGACTTCCACCC  
TTCTTGGTCCCCCTCAAGCCTCCCCCTCCGCACGGACAATGAAGAGGGCTGTGGGATGGTGAAGACCTCCAGCA  
GAATGAGGATCGGCCCCCTGAAGATTCTTCTTAGAACTCCCTCTGGCAGTGTGACAGGCGCTAGAGGTCTGCC  
TCTTACCCATTCTCTATTTTATTCCCTTATTTTATCTAACACCATTTCAAAACAAAACCTGTAGAAGCAGCTGCTGC  
TCCCATGTTATTTTATTGGGGTCTTTGGGGAATGGGTGGGAAAGGATTGTTTGAGTATTTTTTAAAAGGGAAACA  
GTACCAAGGAGACCAGCCCTACCTTGATCTGGGGATAGTCTTGGGGCAAAGAAAGCTGCGTAGTGCTGAACATTA  
AGCTTTCTGGGCCACTGGAACAAAGAACTAGGATCTCACAGGAAAAGCTGGGTAACCTCAAGCAGCTATTCTTTCT  
GTAGGGACCAGAACACGAGAATTTGAAGAGCATGGCAAAGCCCTTTCTCTCCCAAGCCCCAGGCAGAGTACAAGC  
TCATTTTTCTCGGTGGTTATTCTGATATCCCATTTTGGTGTGTCATAATACTTCAAACCTGGAAAGTCACCTGGTC  
GAGTCTAGGGAGGAGGAGTGAAGGGTCTCTGCTTCTGTACAAAATCTCCAGGATTTACAAAATGTAACCTGC  
CTTCTTCAATCCCATATTTGGTAATAAGTTAATATTTGACATGTTTGGTGTCTCTGACCTGTTCCCCACACT  
GGGGATTCTGGTCTGTAACCTGAATTGTTTCTTCCACATGTTCTTAAGTACTAGAGTTAAACTTGTCTATGTGT  
CTTTTTTCTCTCCATCCTTTTTCTTCCGAGAAAGAGCTGGATTGGCTGGGGATATGGTATAACGAGCCTGAGCC  
TTCTGTACGTGTCTGACACTAGCACTGTACAGGCAGCTTTCGGCTGGGGCTCACCCATCCCATAGGAGGCCTATGT  
GGAGCATTAACCTGTGGCCAAAGGAGGCAGCGGGAACAGGCTGCTTGCTATCTGGAAGATGACATATTTGTGCCA  
TGCTTGTTTTTTCACCCAGGTTTTTCCCTCTTTGTGAGATCTGAGCTTTAGTGGAATGTAGAATGTGGCAATCTT  
AAGGTCACCAATCAGTTTTTGTCTTTTTTCTTGGATCTACCTCATGGTCGTTTTCAACATAGCGGGTTAGAGT  
TCTTATACTGTTCCAGTTCAATTCCAAGAATTGCAAATGTTTATTGGACCCCTCCATCTTGATGATATATAAAAA  
TTGGAAGCCAAACCAGTTCTTAAATGCTACATGCAACTCCCAGATTCCAAAGGATTCAAGTTCTAATTATAACCT  
TTGAAGCGTATAGAATGGAACCTCATTAGTTTGATTAGTTCTTACCTCTGTCAGGAGGAATACAGTTCTGTTC  
AAATGGAGGCAGTAGGGAGCAAACTATTCTTCTCAAGCATCCTTTACACCATACTTTACTTCTGGTATGGTTTA  
TTAACCACACACACACAAAAGTGAAAACCTGTGTTGGGGGGGAGACACTACTCCTACTTATCTTGCTCATAAA  
GCCTTTTCTGGTGGGATATTAAGGCCCTGGTGTCTTACAGAAACCATCACGTATGTGCGAGCAGCATTTACCCCC  
TGAAGTCTCTAACTCTGAGCCTGAAAAGATTGTATTTAATACATAACATTTTTTAGTTTATTCTGCCTTTC



195/5332  
**FIGURE 175B**

CTATTTGTTCCAGTTTTTGGTTTGTAGTTTGGAGGGGAACTTAAGTACACAGATCCTTATCTCTCCCCATCC  
CCTAGCCTCACAAAACACAGTTGAGAGTCTTTTAAGTACCTGAGCTCTCGAAGCTACCCAGAACTGAACTAGACT  
CCCCACCTTAGACTGGTACCCTCAAACACAGGACTGAAGCTTAATTGGGAATTTGGCTTTATGGAGAAAAGAAT  
CTTTTTCAAAGTTTGTGTGCGGAAGGGGAGGGTGAGGTTTGCCCACTGTCTCTGCAGGAAGGCTCCGGCTTAATCT  
AGGAAGTAGATTCCAGCTGCACGATGAGGAACACATTAGCTTTTGGGATCAAACCAGGAATATGAATCTGTAATT  
ATTAAGCTCATTGCCAACCACAAAGATATGTTTCTGAAAACCTGTAGTTTCTTAATTTAAGTCCATCCCCTTCAT  
TAACGCTACAGTTGTGACTCACACTGATCCCAAACCTTTTAAGTGCTAAATATTAACATTTAGCATTAACTGTCTT  
GTCAAGCGAAAAGGCCTTCTCTACAACCTAGTCCATCTCACTTCTGGTGCTACCTGAGTTGGACAGAATTCTAGCT  
CATGGTTGCTAGGAAAGCTAGGCCTCTGATCATAGAAGCAGATAGCTTCAGTCCCAGTCTAGGCCTAGATAAATG  
ACTCTTATTACCACAACCCTTATTATTTTCCAATTTCTTTCTCACATACTGTACACAGGTAGTATTTTCAATGT  
GAATCCAAAGCTTGTCTGGTTCTCTGAAAATAATTTTTTCCCCTTTAGGTTCTTTACATTGTGATAATGCTGTAT  
TTAAAGAGAATATTTAAATGTAATATTAAAGAAATATTCAAAAG

196/5332  
**FIGURE 176**

TGATTGCCTATCTCTTCTTGACCCCAAGACCTTCCTTGGATTTTCTGAAAGTGTCAAGCCTTGGGATACAATCTCCG  
AGACTCCTGCTTTACATTAGGGACTCAAGGCGTGAGGGAGCTTCTAGGACTGATTCCCAGATAGTCTCTTTGATC  
TTCCTTGTAGGTCTTCAAAGCTTCACCTTTTCTCCAAAGGCAGATGTGAAGAACTTGATGTCTTATGTGGTAACCA  
AGACAAAAGCGATTAATGGGAAAATACCATCGTTTTCTTGGGTGCGTCATTTCCCCCGCTTCTATGTCCTGTACACAA  
TCTTCATGAAAGAAAGCCTTGAGCCGGGCCATGCTTCTCACATCTTACCTGCCTCCTCCCTTGTTGAGACATCGT  
TTGAAGACTCATACAACCTGTGATTACCAACTGGACAAGGCTTTGGCAAAGCTGGGGATTGGCCAGCTGACTGCT  
CAGGAAGTAAAATCGGCTTGTTATCTCCGTGGCCTGAATTCTACGCATATTGGTGAAGATAGGTGTCGAACCTGG  
CTGGGAGAATGGCTGCAGATTTCTGCAGCCTGAAAGAAGCTGAGCTGTCTCTCTTGCTGCACAACGTGGTCCTG  
CTCTCCACCAACTACCTTGGGACAAGGCGCTTGAATGAACCATGGAGCGGATGGCATTGTCCTGCAGTCGTATAGT  
ATAGCAGTGCAGGAACAAACAGCACTTGCCAGCAAAGTCTGTGTGTACTGTAAAGTGTGTGGGAGGCAGAGAGAG  
GAGCAGGGGCCATGGGCTTCACAGCATGGCACACATGTGGGAAGTGCAGACATTCTCTCACAGCTAGAACTGAA  
ACAAACCCTCTTGCTAGGGGTGGTCCGTGTGAGGTGTCATCCTGTCCCCCTCATAATTACTAATAGCTGGAACTG  
GCAGCAGCCTCTACTGGGCTTTTACTGTGATGTGTTTCACTTACATCTGTGGGTTTTTGTGTTGCTGTTAGAA  
GAATCCTTATTTGGCTTAGGACTGATCCACTTCCATGTTACTTACATCTGTGGGTTTTTGTGTTGCTGTTAGAA  
AATTTGTGGCTGGTGAACACAGCACTCCTTTGGCTGGAGCACATGTGTCCGTGCATGTACTTGGGTGTTTCCCTC  
CATCCTTTCTGATATGACCAAAAATCAAGTTGTTTTGTTTTTGTACCTTCACTGGCATGGGCTAACCCTTCT  
TTTTCAAACCCTCTGAACACCTTTTTCTGATGGGTAACTTGCAGGAATATTCTATTGGAAAAGATAACAGGAAGT  
ACAAGTGCTTCTTGACCCCTTCTCAATGTTTCTAGCCTTCACTCTCCATTGTCTTTTCTGGGCTGTATTACAGC  
CCTCTGTGGATCTTCAACTCTGCTGCCTCCACTGTGATGCAGCAGTCCAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
CTGGGCCATGGATCACACCTGTAAGGTACTAATTACTGCCAGCCTGGGGAGATCAGGAGAGGTCTGCATAGTTA  
GTAAGTTGGGTTTAGCTTTTGTGTGTGCATCAGTGACTTAGAGTTCTGTAATAACTTATTGTAAATGCATGAAGC  
ACTGTTTTTAAACCCAAGTAAAGACTGCTTGAAACCTGTTGATGG

197/5332  
**FIGURE 177**

AGATATCCCGATGTCTGTGGGTATAATCGATCCTAGGGCTAATCCAACCTCAACTAAATACAGTGGAGTTCCTGTG  
GGACCCCTGCAAAGAGGACATCTGTGTTTATTCAGGTGCACTGTATTAGCACAGAGTTCAGTATGAGGAAACATGG  
TGGAGAAAAGGGGGTGCCATTCCGAGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCA  
CTTACACTCGGCCAGCTGCCAGATCAAAGTTTTCAAGCCCAAAGGTGCAGACAGAAAGCAAAAAACGGATAGGGA  
AAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATGAGACAACCATACTCACAGAGTG  
TTCTCCATGGCCCGAGATCACGTATGTCAATAACTCCCCATCACCTGGCTTCAACAGTTCCCATAGCAGTTTTTC  
TCTTGGGGAAGGAAATGGTTCACCAAACCACCAGCCAGAGCCACCCCTCCAGTCACAGATAACCTCTTACCAAC  
AACCACACCTCAGGAAGCTCAGCAGTGGTTGCATCGAAATCGTTTTTCTACATTCACAAGGCTTTTCACAACTT  
CTCAGGGGCAGATTTATTGAAATTAAGTAGAGATGATGTGATCCAAATCTGTGGCCCTGCAGATGGAATCAGACT  
TTTTAATGCATTAAAAGGCCGGATGGTGCGTCCAAGGTTAACCATTTATGTTTGTGAGGAATCACTGCAGTTGAG  
GGAGCAGCAACAACAGCAGCAGCAACAGCAGCAGAAGCATGAGGATGGAGACTCAAATGGTACTTTCTTCGTTTA  
CCATGCTATCTATCTAGAAGAACTAACAGCTGTTGAATTGACAGAAAAAATTGCTCAGCTTTTCAGCATTTCCTCC  
TTGCCAGATCAGCCAGATTTACAAGCAGGGGCCAACAGGAATTCATGTGCTCATCAGTGATGAGATGATACAGAA  
CTTTCAGGAAGAAGCATGTTTTATTCTGGACACAATGAAAGCAGAAACCAATGATAGCTATCATATCATACTGAA  
GTAGGAGTGC GGCGTTTTCTGTGCCAGTGGCTGCTCCTTCCTTCACCTCTGAAAACGGCCCTCTTGAAGGGGGATA  
TGAATGGAGATTTGAAGGTCTGCAAGAACCTGACTCGTCTGACTGTGTGTGGAGGAGTCCAGGCCATGGAGGCAG  
AATCCTGGCCCTCTGTGTTGGCCCAAGCTCTTGTGGTACACACAGATTACTGCCCAATATGCAGTTCTGCAGCTG  
TTTTAGTTAAATTTCTGGACCTTGTTGTTGTTAAATATCAGTAGAACTCTACATAATTTAGAGTGTATGTAGGG  
CATAATGATGATGGGAATTGTGTGATGTTTAAACAGGAAGATCTTAAATTTTGTGATATGGAGCCCTGTAATTTTT  
TTCTTATATAAAAATGGGTATCTATATTATTAAGACTAGGTCTTCAATCTCTTTGTACTGGTCTCAAATGTACTG  
GTATCTCTGCTTTTTTGCCACAGTTTTGTCCCTGAAAACCTTTATCAGTGAGGAGAAATACAGAATTTTCTTTTGGT  
TCCCCTGTAATACCACAACATAATAGTATTTTCAGCTAACATTTATTGACCAGGCAGTGTGATAAATTTTTTGAAT  
GACCATCTTGTTTAAACCCCTAATCACACTATCTGAAGTAGGTGCTATAGTGACCCCAACCGAAGATGAGGAAA  
TGGAGACACACAGTGGCTAAGTAGCTTGCTAGGTGCCAGGAGCTGGCAGGCAGTGATGCTGAAATCCAAACCAGG  
CAATCTGGCCCTCCTTATTCACCTCTCATACCACAGTGCTACCCATTATAACCTGTGTTCACTTCGCTTATTA  
CTGTGGCCCTTCTGGTGACTACAACATAACACTGAGTATGAACTGAGGAATTAACCACTGAAAGAGACAAAGCAC  
ACCTAAATAATGATGAACAAATCAAGACCTACAAGAAATGAACACATAGATGCTTTTTAAGTGTGATTAGTTATC  
GGAATCAAAGAATTTGAGGTGGTGACAACCTGGGGATTATCTGTAACCTCCCAAATTTACTGTTCTTGAATGACAT  
TCTCAAACATTTTATTAATGAGTTAGTCTCATCCCTGCTTCTGTTTCTCTCTGCTCTCTCTGCTCTCTCTGCTCTG  
GAAGTTATTTTACTCATGCTATGTTTTTAAATAGAAGCTTTACAAAAAAGATGCATTCCCTTCCTGTTTCACT  
CTTACCATGTTTTTGTCTTCTTAAAGAAATGATTGT  
ATCATGGGTTTTCTTTCTTCACTTGTAAGTTTTATCTAGAAATACTTTTACAGGTTATGTTGAGGTACACAAAG  
ATAATGTTCTAAGATTGTGTATTGGATTTGGATTTGT  
AAGGTTTAAATGTTTTTTATACAGAGATTTTTGTTTCATTAACTCAATCTGCATCATG

198/5332  
**FIGURE 178**

GGCTCCCGGAATATGGAGCCCTGGGCGCGGGGGCGGCGTGTGAGGTGGTTGCGGAGCTGAATCATATTCTAAGAA  
CTCAGCCACTCAGGTATCCACCATGGTGCTGGGTCTGAAACAGAAGATGTCAGATGACAGTGTCTTGAGATCA  
TGGGGAGTCTGCCAGTCTTGGAACATCAACCCTGCCTATAGTAATCCCTCTCTTTCACAGTCCCCTGGGGACTC  
AGAGGAGTACTTCGCCACTTACTTTAATGAGAAGATCTCCATTCCCTGAGGAGGAGTACTCTTGTTTTAGCTTTCG  
TAAACTCTGGGCTTTCACCGGACCAGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGA  
TTTGAGTCTGGAGCAGTGGCTGGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTGGGGCTGCTGCT  
CCAGCGGCTTGCAGCTAGACTGGGAGTGGTTACTGGGCTGCATCTTGCTGAAGTATGTCACCGTCAGTATCCCAA  
GGTCCACGAGTCATCCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCAGACATGCAAGAAGTCATTGGCTC  
AGCCATTGCTATCAATCTTCTGTCTGTAGGAAGAATTCCTCTGTGGGGTGGCGTTCTCATCACCATTGCAGATAC  
TTTTGTATTTCTCTTCTTGACAAATATGGCTTGCGGAAGCTAGAAGCATTTTTTGGCTTTCTCATCACTATTAT  
GGCCCTCACATTTGGATATGAGTATGTTACAGTGAACCCAGCCAGAGCCAGGTACTCAAGGGCATGTTTCGTACC  
ATCCTGTTTCAGGCTGTGCACTCCACAGATTGAACAGGCTGTGGGCATCGTGGGAGCTGTCATCATGCCACACAA  
CATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAGGTAAACCGGAACAATAAGCAGGAAGTTCGAGAAGCCAA  
TAAGTACTTTTTTCAATGAATCCTGCATTGCACTCTTTGTTTCCTTCATCATCAATGTCCTTTGTTGTCTCAGTCTT  
TGCTGAAGCATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAAATACCAGCAGTCCCTCATGCTGG  
CCTCTTTCTAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTGTGCTGGGATGTTACTTTGG  
GCCTGCTGCACTCTACATTTGGGCACTGGGGATCCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTC  
TGGCCAGTTTGTGATGGAGGGATTCCCTGAACCTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTCTAT  
TGCCATCATCCCCACTCTGCTTGTGTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAA  
TGTTCTACAGAGCTTACAGCTTCCCTTTGCTCTCATACCCATCCTCACATTTACGAGCTTGGCGCCAGTAATGAG  
TGACTTTGCCAATGGACTAGGCTGGCGGATTGCAGGAGGAATCTTGGTCCTTATCATCTGTTCCATCAATATGTA  
CTTTGTAGTGGTTTATGTCCGGGACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTA  
TCTGGGCTTTGTGTTCTACTTGGGTGGCAATGTTTGATTGCACTGGGCATGTCCTTCTGACTGTGGGCATAC  
GTGCCATCTGGGATTGACAGCTCAGCCTGAACCTCTATCTTCTGAACACCATGGACGCTGACTCACTTGTGTCTAG  
ATGACTGACAGCCTGAGAGACTCTATAAGAACATGTTTTTCTAAGCCCTTTTTGTGCCAGGTGTCCCGTTAACGT  
CTCTGTTAGTTCAGAGAGACGGGATTTACCATGTTGCCAGGCTGGTGTGAACTCATGAGCTCAAGTAATCTG  
CTGGCCTTGGCCTCCCAAAGTGCTGAGATTATAGGCGTGAGCCACTGCATCCAGCTCACTCCTCATTTCTTTCTA  
GCCCCAAAGGTGTTGAGTCAGCAAATCCTGCAGCCTTTGTGTGACTTTGAGCATCACTTTCCCTTTTCAGCATT  
AATATATGACCTCTCTGCCTTATTTTAGAACTTACTACATTTCAATAAACTTTTTAAAAATCC

199/5332  
**FIGURE 179**

ATGTTTATGGCTTTCCAAAGCATTGCAGTTAAATCATTGAGCAATAAACCTGCGTTTGCACCATTGCCAGGTATT  
AATGTGAGTCATTTGTTTTATTTTAGTGATGTCCTTGCAATTGCCCATTTTAAAGCAAGAAGAGTCGAGTTTGCCCT  
CCTGATAATGAGAATAAAATCCTGCCTTTTCAATATGTGCTTTGTGCTGCTACCTCTCCAGCAGTGAAACTCCAT  
GATGAAACCCTAACGTATCTCAATCAAGGACAGTCTTATGAAATTCGAATGCTAGACAATAGGAAACTTGGAGAA  
CTTCCAGAAATTAATGGCAAATTGGTGAAGAGTATATTCCGTGTGGTGTTCATGACAGAAGGCTTCAGTACACT  
GAGCATCAGCAGCTAGAGGGCTGGAGGTGGAACCGACCTGGAGACAGAATTCTTGACATAGATATCCCGATGTCT  
GTGGGTATAATCGATCCTAGGGCTAATCCAACCTCAACTAAATACAGTGGAGTTCCTGTGGGACCCCTGCAAAGAGG  
ACATCTGTGTTTATTCAGTGGAAACAAATTGGCCCCCAGTCCAATCTGCAGAGACAGCTTTGCCTTGGGGAAGTTA  
CCTGATGTAGAACAAGGACAGGAGACAGGCACCAAGTCCGGAGTTTGCCTGGCTCTGATGTCTGCTCGTGGATCA  
CTGATTGACCAGGCTGAAGCCAGAGGGTCCTTTAGATCCCGAGGGATAATAGAGCAGGCAGCATTTCACCCACG  
TTCTGA

200/5332  
**FIGURE 180**

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT  
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG  
GCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA  
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT  
TTGGTGGCGCCGGGAGTGGATTGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC  
TTGCTGGTGGCTTTGGGGGGCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA  
GTCTCCTGACTCCCCCTCAACCTGCAAATTGACCCCGCCATCCAGCGGGTGCGGGGCCGAGGAGCGTGAGCAGATCA  
AGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCTAGAGCAGCAGAACAAGGTTCTGGACA  
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACA  
TCAACAACCTCAGGAGGCAGCTGGACAACAT

CATGGCCAGACACATCCACCACCATCAGGAGCCACAGCAGCAGCGCGGGGTTTCAGTGCCAACCTCAGCCAGGCT  
CCCTGGGGTTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC  
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGG  
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT  
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGGCC  
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTACCCGTCAACCAGAGTCTCCTGACTCCCCCTCAACCT  
GCAAAATCGATCCCACCATCCAGCGGGTGCAGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGC  
CTCCTTCATCGACAAGGTGCGGTTCTTGGAGCAGCAGAACAAAGGTTCTGGAAACAAAGTGGACCCTGCTGCAGGA  
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCT  
GGACAGCATTGTGCGGGAACGGGGCCGCCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA  
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA  
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTCAGACACATCTGTGGTGTGTCCATGGACAACAA  
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC  
TGAGGCTGAGTCTGGTACCAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG  
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA  
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA  
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAAGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA  
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGGAGGAGTGCAG  
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC  
CAGTGGTGTGCGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG  
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA  
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCAGTAAAGTGCCTGCTGCTAGCTCTCGGTCCACAG  
TCCTCAGGCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCCTTCTCTCTCTCTCTCTATACCATCTGAGACCC  
TGTCCTCAGGTTAGAGCTGGGTATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTCTATACCATCTGAGACCC  
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTTACTAAATT  
ATTAATTTCTTGCCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTG  
CAGAAAATTGCCAGGGGCTTATTTTCAAGAACAACTTCCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATA  
AGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAAGTGAAGTACTGCTATGATGTACAAAGCCTGTAT  
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGCAATTGCTAAATAAA

202/5332  
**FIGURE 182**

TCGACAGCTCTCTCGCCCAGCCCAGTTCTGGAAGGGATAAAAAGGGGGGCATCACCGTTCCTGGGTAACAGAGCCA  
CCTTCTGCGTCCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCTGGTTCTCTTGCTCCACCA  
GGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGTCTTCCGGAGCGGGGGCAGTCGTAGCTTCAGCACCGCCTC  
TGCCATCACCCCGTCTGTCTCCCGCACCAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGTGGCTT  
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC  
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGCTGGTGCTGGAGGCGGCTATGG  
CTTTGGAGGTGGTGCCGGTAGTGGATTGGTTTCGGCGGTGGAGCTGGTGGTGGCTTTGGGCTCGGTGGCGGAGC  
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA  
CCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGACCCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA  
GATCAAGACCCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTTCTGGAGCAGCAGAACAAGGTTCT  
GGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCA  
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCTGGACTCAGAGCTGAGAAA  
CATGCAGGACCTGGTGGAAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCCTGCTGAGAATGA  
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT  
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTGACAC  
CTCAGTGGTCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCCAGTA  
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC  
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT  
GAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG  
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT  
GGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG  
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTACAAG  
CAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTGGAGGTCTTGGCGGCGGCCTCGG  
TGGAGGTCTTGCCGGAGGTAGCAGTGGAAAGCTACTACTCCAGCAGCAGTGGGGGTGTCGGCCTAGGTGGTGGGCT  
CAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG  
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGCTTAAGAACCTGCTGCAAG  
TCACTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTAT  
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGCCCCATTCCC  
AGCCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCCCT  
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATAAAACAGAATCCCCACCCCAATCCCAAATTTTGT  
TTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATAT



203/5332  
**FIGURE 183**

GAAACATCCAGGACCTGGTGGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA  
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG  
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTG  
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC  
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA  
TGAGATCTCTGAGATGAAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA  
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA  
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC  
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA  
AGGAG

204/5332  
**FIGURE 184**

AGCCTGTGACTTTCCCTCCCTGGACAAAGGCATCATGAGTTGTGAGATCTCTTGCAAATCTCGAGGAAGAGGAGGA  
GGTGGAGGAGGATTCCGGGGCTTCAGCAGCGGCTCAGCTGTGGTGTCTGGTGGGAAGCCGGAGATCAACTTCCAGC  
TTCTCCTGCTTGAGCCGCCATGGTGGTGGTGGCGGGGCTTCGGTGGAGGCGGCTTTGGCAGTCGGAGTCTTGTT  
GGCCTTGAGGGACCAAGAGCATCTCCATTAGTGTGGCTGGAGGAGGTGGTGGCTTTGGCGCCGCTGGTGGATTT  
GGTGGCAGAGGAGGTGGTTTTGGAGGCGGCAGCAGCTTTGGAGGTGGCAGCGGCTTCAGTGGTGGTGGTTTCGGT  
GGAGGCGGCTTTGGTGGAGGCCGCTTTGGAGGTTTTGGGGGCCCTGGTGGTGTGGAGGTTTAGGGGGTCTGGT  
GGCTTTGGGCTGGAGGATACCCTGGTGGCATCCACGAAGTCTCTGTCAACCAGAGCCTCCTGCAGCCTCTCAAC  
GTGAAAGTTGACCCAGAGATCCAGAATGTGAAGGCCCAAGAGCGTGAGCAGATCAAACTCTCAACAACAAATTT  
GCCTCCTTCATTGACAAGGTGCGGTTCTTGGAGCAGCAGAACCAGGTGTTACAGACCAAATGGGAGCTGCTACAA  
CAAATGAATGTTGGCACCCGCCCATCAACCTGGAGCCCATCTTCCAGGGGTATATCGACAGCCTCAAGAGATAT  
CTGGATGGGCTCACTGCAGAAAGAACATCACAGAATTCAGAGCTGAATAACATGCAGGATCTTGTGGAGGATTAT  
AAGAAGAAGTATGAGGATGAAATCAATAAGCGCACAGCTGCTGAGAATGATTTTGTGACGCTTAAAAAGGACGTG  
GACAATGCCTACATGATAAAGGTGGAGTTGCAGTCCAAGGTGGACCTGCTGAACCAGGAAATTGAGTTTCTGAAA  
GTTCTCTATGATGCGGAGATATCCAGATACATCAGAGTGTCACTGACACCAACGTCATCCTCTCCATGGACAAC  
AGCCGCAACCTGGACTTGGATAGCATCATCGCCGAGGTCAAGGCCAGTATGAGGAGATCGCCAGAGGAGCAAG  
GAAGAAGCGGAGGCCCTGTACCACAGCAAGTATGAGGAGCTCCAGGTGACTGTGCGGAGACATGGAGACAGCCTG  
AAAGAGATCAAGATAGAGATCAGCGAGCTGAACCGCGTGATCCAGAGGCTGCAGGGGGAGATCGCACATGTGAAG  
AAGCAGTGTAAGAATGTGCAAGATGCCATCGCAGATGCCGAGCAGCGTGGGGAGCATGCCCTCAAGGATGCCAGG  
ACAAGTTGAATGACCTGGAGGAGGCCCTGCAGCAGGCCAAGGAGGACTTGGCGCGGCTGCTGCGTGAATACCAG  
GAGCTGATGAACGTGAAGCTGGCCCTAGATGTGGAGATCGCCACCTACCGCAAACCTGCTGGAGGGCGAGGAGTGC  
AGGATGTCTGGAGACCTCAGCAGCAATGTGACTGTGTCTGTGACAAGCAGCACCATTTCATCAAATGTGGCATCC  
AAGGCTGCCTTTGGAGGTTCTGGAGGTAGAGGGTCCAGTTCGGAGGAGGATACAGCTCTGGAAGCAGCAGTTAT  
GGCTCTGGAGGCCGACAGTCTGGCTCCAGAGGCGGTAGTGGAGGAGGAGGTTCTATCTCTGGAGGAGGATATGGC  
TCTGGCGGTGGTTCTGGAGGAAGATACGGATCTGGTGGTGGCTCTAAGGGAGGGTCCATCTCTGGAGGAGGATAT  
GGCTCTGGAGGTGGAAAACACAGCTCTGGAGGTGGCTCTAGAGGAGGCTCCAGCTCTGGAGGAGGATATGGCTCT  
GGAGGTGGGGGTTCTAGCTCTGTAAAGGGTAGCTCAGGTGAAGCTTTTGGTTCCAGCGTGACCTTCTCTTTTAGA  
TAAAGATGAGCCCCCACCACCACCGACTCTCCCAACCCAGACTCTCCCACTCCAGAATGTAGAAGCCTGTCTCTG  
TACCTCTAACTGGCAGCAAGTTAAATTTTGTGATTTATCTCTGATGGCACTTTGAGGGAAAAGAATGTCCACAT  
ACAGTTTTTGAAAGATCTTCTCTCAAACCAAGTTAGTTAGAGCCAGTGACGCCTCTGTGTTCTGGGGCGGAATCT  
GTGCTGTCTAGGTTTGTGCTTCTAGCCATGCCCATTCGCCCCCCACCATGCCTCTTTGCATTGCCCATTTTCCA  
GATGTGTATTCTGTTGAGGACCCAGGCCCATCCAGGGATTTTCATCTCTAAGCCTGGCAGTGCTGGGGGGAAATGT  
GTTTCTGTGTATATAGCTCCTCTTGTCCACTCTGCTTTCGGAAGTGCTGTGGTCTGGGGGTCTTCATAATAAAC  
TCATTTGCA



206/5332  
**FIGURE 186**

ATGATGCATCACCTTCCAAGGAGGAAAGGAAGCGATCATGGACTCCTGACAGAGAGCAAGATAGAGACCAGAACT  
GGAAGTCTTCCCCATCTAAAGATAGGAAGCAGCATTATTCAAGGAACAGACATCGAGGAGGCAGCCATTCTTGCT  
TTCGTTCTCGTTCCAAATCTGCAGAAAAAGAACAACGGCACGAAGAACAAGAATGAGATAAGGAGAGGGATTGGA  
ATAAGAAGGACCAATATCAAGACAATGATGGGCACAGATGGGACAAGGACCAGAAACGATCCAGTTTCTCCTGGC  
CGAGGAAAAGACTTTAAATCTCGGAAGGATGGAGACTCTAAGAAGGATGAAGAGGATGAACATGGTGATAAGAAG  
CCTAAGGCCCCAGCTGTTATCCCTGGAGGAACCTTCTGGCCAAGAAAAAGGCTAAGGAAGAAGCTGAGGTAAAGCCC  
AAGTTCTCTCCAAAGCAGAACAAGAGGCTGAAGCTCTAAAGCAACGGCAGCAGGAGGTGGAAGAGCAGCAGAGG  
ATGCTTGTAGAGGAGAGGAAGAAAAGGAAACAGTTCCAAGACTTGGGCAGGAAGATGTTGGAAGATTCTCAGGAG  
AGGATGGAGCCAGAGACCAGTGGAAATGAGGATGAGAAAGGGCAGCAGAAGATACGGGAAGAGAAGGATAAGAGC  
AAAGAAGTGCATGCCATTAAGGAGCATTACCTGGGTGGCATCAAAAAGCGGCACCAACAAGACATCTCAATGAC  
CGAAAGTTTGTTTTTGAGGGGGATGCATCTGAGGATACATCCATTGACTACAACCCCTGTACAAAGAACGGCAC  
CAGAAAAAGTTAGATGAGATGACGGACAGGGACTGGTGGCTCTTCCGTGAGGGCTACAGCATCACCACCAAAGGT  
GGCAAGATCCCCAATCCCATCCGATCCTGGAAAGAGTCTTCTCTGCTGCCACACATCTTGGAGGTCAATTGATAAG  
TGTGGCTACAAGGAATCAACACCTATCCAGCGTCAGGCAATTCCCTTTGGGCTACAGAATCGTGACATCATTGGA  
AGAGACCGTCAAGTTTGGGAAGCTGCTAGATATCCAAGTGTGGCTGTCAATTGGTGGCATCTCCAGAGAAGACTGG  
GGCTTCAGGCTGCTCATGGGTTGTGAGATTGTGATCGCCACCCCTGGGCATTGATTGATGTGCTGGAGAATCGC  
TACCTGGTGCTGAGCTGCTGTACCTACGTGGTTCTGGATGAGGCAGATAGGATGATTGACGTGGGCTTCGAGCCA  
GATGTCCAGAAGATCCTGGAGCACATGCCTCAATCAGAAGCCAGACACGATGAGTCTGAGGACCCTGAGAAGATG  
CTGGCCAACTTTGAGTCAGGAAAACGCAAGCCCCATGAGCGTGTGGAACAGGTCTTCCTCATGTGAGAGTCAGAA  
AAGAGGAAAAAGCTGCTGGAAATCTTGAAGCAAGGCTTTGACCCAGCCATCACTATTTTTGTCAACCAGAAGAAG  
GGCTGCGACGTGTTGGCCAAATCCCTGGAGAAGATGGGGTACAATGCCTGTACACTGCACGGTGGAAAAGGCCAG  
GAGCAGCGAGAGTTTGCAATTGTCCAACCTCAAGCCTGGGGCCAAGGATGTCTTGGTGAATACAGATGTGGCTGGT  
CATGGTATTGACATCCAAGATGTGTCTATGGTTGTCAACTATGATATGGCCAAAAATATTGACGATTACATCCAC  
CGCATTGGCCGCATGGGACAAGCAGGCAAGAGTGGGGTGGCCATCACCTTCCTCACAAAAGAGGACTCTGCAGTT  
TTCTACGAGCTGAAGCAAGCCATCCTGGAAAGCCAGTGTCTTCTGTCCCCCAAAGTAGCCAATCACCAGAT  
GCCAGCATAAGCCAGGCACCATCCTCACCAAGAAGCGCCGGGAGAGACCATCTTTGCCTGA

207/5332  
**FIGURE 187**

GCAGTGC GCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCCGGCCAGCCACCATGTCCATCCACTTCAGCTCCC  
CGGTATTACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG  
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGGCCGTGCGCTCTGCCTATGGGGGCC  
CGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT  
CCCTCCAGCGGGTGC GCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTGCCTCCTTCATCGACA  
AGGTGCGGTTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGAGCTGCTGCAGGAGCAGAAGTCGGCCA  
AGAGCAGCCGCCTCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG  
ATGGGGGCCGCCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG  
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGTGAAGAAGGATGTGGATGCTGCCTACATGAGCA  
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCTCAATGAGACGGAGT  
TGACAGAGCTGCAGTCCCAGATCTCCGACACATCTGTGGTGTGTCCATGGACAACAGTCGCTCCCTGGACCTGG  
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT  
ACCAGACCAAGTTTGAGACCCTCCAGGCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA  
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG  
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG  
AAGCCGCCCTGCAGCGGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACATCATGAGCGTGAAGC  
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGGTTGGCTGGAGATGGAG  
TGGGAGCCGTGAATATCTCTGTGATGAATTCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCG  
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCTGGGCTCCTGAAGGCTTATTCCATCC  
GGACCGCATCCGCCAGTCGCAGGAGTGCCCGCGACTGA

208/5332  
**FIGURE 188**

CTCTCTGTCAAGAGCCATTGCCTGAAACTGGAGGAGAACATCAAGACAGCTGAGGAGCAGGGTGAGCTGGCCTTC  
CAGGATGCCAAGACCAAGCTGGCCCAGCTGGAGGCCGCCCTGCAGCAGGCCAAGCAGGACATGGCGCGGCAGCTG  
CGCAAGTACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGGTGGAG  
GGCGAGGAGGGCAGGATGGACTCGCCCTCAGCCACTGTGGTTCAGCGCTGTGCAGTCCAGGTGCAAAACCGCCCT  
TCCCTCCCCCTACCCCTTATGTTCCCTGTAGCTGCCTCCAGATCAGGCCTCTCCAAGGCCCTCCCCGAAAGAAGA  
AGGGCAGCAAAGGCCCGTGTATCAAATCACCGAAATGTCAGAGAAGTACTTCTCGCAGGAGTCGGAGGTCTCAG  
AGTAAGGCGGCTGGACCCAGGAACCCAGGGCACTCCACTGCAGCAGGAGGGACTTAAGCTAGACTCAAGAAAG  
CAGCTTGGAGCCTCTAGGTTGAGAAGAGAGGGCAAAACCTGATATTGAACTGAGAGAGGGGTTCAAACTGACTGT  
GTTTTGTGGGCTGCCAGGGTGGGAGAGGAGCATCACCAGCTCCTCAGAGCCACTCCGCTCCATATCAGTATCTCA  
CAGTCCCATCCTTCCAACCTTCTGGCCAGAGGTTTTCTGTATGGGTGAGTCGGAATTAGGGGTGAGTTTTGTCTC  
CACCTCCTCGCTCCTCTGAGGCTCCTCCTCCAGCATCAGGCTCTGCCAAGGCCCTCTGACTCTTGCCCAATCCT  
TGACCTTGACTCCTATCTCAAGCCTTGCCCTGTCTCTGCCTCGGAACCTGGGACTGGGACTGGCTCATCCACCTAT  
GTGCGGGAGCCGAGGAGGACGGCGTGGGCCCTGTCTGTATCTGGAATTCCTGGGAAGGCTGGCTGCTGAAGACC  
CTCTTGCTTTCCCGTGTCTTTTGGGCTCCCCAGAGACCTGACAGTATTAGGGAGTGAAGGGAGGAGGGGCCCTG  
GCTATTTGGGACCTAAGCCTAGGCCCCAGAGATCAGCCCCGAACACCCGCATCCCTTCTCCTCCCATGGGTCCCT  
CCCAGTAGGCAGTAGTCAGAACTGGATGGGCTGCCCCAGCCAGCTCCCAGCAGCTTCTCCGGAAGCTGCTCTTG  
CCATAATCAACTCCCTGGGAGTGGAAAGCCAGATGGCAGCTTGAGATTGGGCAGGAGCATTGATCTTCCCTTTCAC  
CTCCCTGCCATGCTGGGGTCTTACCCAGCCTGGATCTGAGCTCTGTGCCCCCAGCCGGGTGTTCCAGCCTGAG  
CACCGGGCTTTGGTGCACCAGGCCTTGAGACCCCTGGTCCCACCCCTGCCGTGAAGCCCCAGGCCCACTTCCCA  
AGAATCTCACTTCTCAGGGCCTCTGTTCTCTCTCCACTGGGCCAAATAGCCTGGCCCTCCCCCTCCTTGGCATT  
ATGGGGGAGCCCAGGAACCCCCCACACCTATGGGGTTAGAGCTCCTCCTTTCTTCTCACTCCTTCCCCCTTCCCTC  
CTCCATGCCCACCTCCCCCTGCCTCCAGCAGGCCAGGAAGAAGGCACAGTCCAGGCAAGTCTGGGAGCTTCCAAGC  
CCTTGAGGTCCAGCTGTGGGGCCCAATGACAGCCTTACAAGGTTCTACCAGAGAGGAAAATTCCACATCCCAC  
CAGAAGACAGGGGTGTTGGCAGGCATACTCCTATCTCCTCCTCTTGGCTCTCAATGCTGAGGCTTGACAGGGCAT  
CCCAGCGGCACCAGCCTCCCACTGCACAGCTTCCTTCCCTCCTTCACTCTCCTCTCCCCCTCCCTGCCCCCTTGCCCT  
CACCTCCTCTTCTAGACTGCATTAGATTCAATCATCTCATTTGCCAGGACATGTTGGCCAGAGGTCTGGGCCCAT  
CCCAGGCCTCAAGGCCCTCCAGGCCTGTGGGGAGCACTGGAGGGTTACTGACTCTCTGGCCATGGGAACCTCAGAG  
ATTCTCATCCCCAAAGTCCCAAAAGAGGGTGCTGATTTGGTGCTTTTCTCCTCAGGCTCTTCATTGGTTTCCAAGGGA  
GCAAATCCTCAGTGGGGATACAAGACATATAAAGTATATATTATTTTTTTCATAACTTATGTGGCTTTTAACTTAT  
TGCTTCCCTTCCCTGTTTCTGCATGATCAGTCTGTATGTACTATCTGGAAAGATAACACATACTCCAGCCACCTCA  
CCTGATTGGCTATCTTGGGGCCATGTCCCCTTCTTGCTGCCACAGGATGAATAAAGTGTGAGATTTGTCTATGG  
AGAAAGCTGTGTGTCTGTTTTTATCTCCCCTCTCAGGACCAGTCAGCCACTGGTCAATCAGGCTGATCATGGAAC  
ATTAGGAATTCTCCAATTAAGGGAGAAAAAGTCCAGGGACTTAGTTATATCTTCAGACCAGTGCAGCTGGTACAC  
ACAAAGTTCTCCTGTCTCACCATCTGATATGGTTTGGATGCTCGTCCCCTCCAAATCTCATGTTGAAATGTAATT  
CCCAGTGTGGAAGTGGAGCCTGGTGGGAAGTATTTGGATCATGAGAGAGGATCCTTCATGAATGGCTCAGCACC  
ATCTCCTTGGTGATGAGTGAGTTCTCACTCAATTCACATAGATATGGTTGTTTAAAAGAGTCTGAGACCTCTCCC  
CTCTTTCTCGCCATGTGATATGCCTGCTCCCCCTTCACCTTCGCCTTTACTGTAAGCTTCCTGAGGCCCTCACC  
AGAAGCTGAGCAAATGTTGGTGCCATGCCAGTACAGCCTGCAGAATTGTGAGCCAAAATAAATGTCTTTTCTTTA  
TAAATTA

209/5332  
**FIGURE 189**

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT  
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCCTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC  
CGGGGCAGTGGAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCGAGAC  
ACCCGAGGAGTCCGTTCCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT  
TGAAGCGTACCTGCGGAGGTGCGACCAAGGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG  
TGCTCCAAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCTGTCTTTATCCTAGTTCCACACCT  
TGGTGTGGGTACTGGGTGCAGGATGAAGTGTGCTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG  
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGTCTTGCACCGCAGCACAGGCAAGTTCCACTACAAGAAGGAGG  
GCACCTACTCCATTGGCACCGTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACTTATGTGCGTGTCT  
CTTCTGAGGAACTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG  
ATGGGCTGGGGCAGATGTCCTTGGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC  
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA  
AGGTGGGTGAGAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA  
TGCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT  
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCTTGCCC  
TCTGAGCGTCGCTGGATCTCTGGGAGCTCCTTGATGGCTCCCAGACCTTGGCTTTTGGGAATTGCACTTTTGGGC  
CTTTGGGCTCTGGAACCTGCTCTGGGTCAATTGGTGAGACTTGGAAGGGGCAGCCCCGCTGGCTTCTTGTTTTG  
TGGTTGCCAGCCTCAGGTCATCTTTTAATCTTTGCTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC  
TGGTGGGGTCCCCCTCTTTCTCCACTGTACAGAAGAGCCACCCTGGGATGGGGAATAAAGTTGAGAACATG

210/5332  
**FIGURE 190**

GAAACTTGGGGGAGTGACAGAAGAACTTCGGGAGCGCACGCGGGACCAGGGACCAGGCTGAGACTCGGGGCGCC  
AGTCCGGGCAGGGGCAGCGGGAGCCGGCCGGAGATGCCCTGTATCCAAGCCCAATATGGGACACCAGCACCGAGT  
CCGGGACCCCGTGACCACCTGGCAAGCGACCCCTGACCCCTGAGTTTCATCAAGCCCACCATGGACCTGGCCAGC  
CCCCAGGCAGCCCCCGCTGCCCCACTGCCCTGCCAGCTTCAGCACCTTCATGGACGGCTACACAGGAGAGTTT  
GACACCTTCCTCTACCAGCTGCCAGGAACAGTCCAGCCATGCTCCTCAGCCTCCTCCTCGGCCTCCTCCACATCC  
TCGTCTCAGCCACCTCCCCTGCCTCTGCCTCCTTCAAGTTTCGAGGACTTCAGGTGTACGGCTGCTACCCCGGC  
CCCCTGAGCGGGCCAGTGGATGAGGCCCTGTCTCCAGTGGCTCTGACTACTATGGCAGCCCCCTGCTCGGCCCCG  
TCGCTCTCCACGCCCAGCTTCAGCCGCCCCAGCTCTCTCCCTGGGATGGCTCCTTCGGCCACTTCTCGCCCAGC  
CAGACTTACGAAGGCCTGCGGGCATGGACAGAGCAGTGCCCAAAGCCTCTGGGCCCCACAGCCTCCAGCCTTC  
TTTTCTTCAGTCTCTCCACCGGCCCCAGCCCCAGCCTGGCCCAGAGCCCCCTGAAGTTGTTCCCCTCACAGGCC  
ACCCACCAGCTGGGGGAGGGAGAGAGCTATTCCATGCCTACGGCCTTCCCAGGTTTGGCACCCACTTCTCCACAC  
CTTGAGGGCTCGGGGATACTGGATAACCCGTGACCTCAACCAAGGCCCGGAGCGGGGCCCCAGGTGGAAGTGAA  
GGCCGCTGTGCTGTGTGTGGGGACAACGCTTCATGCCAGCATTATGGTGTCCGCACATGTGAGGGCTGCAAGGGC  
TTCTTCAAGCGCACAGTGCAGAAAAACGCCAAGTACATCTGCCTGGCTAACAAGGACTGCCCTGTGGACAAGAGG  
CGGCGAAACCGCTGCCAGTTCTGCCGCTTCCAGAAGTGCCTGGCGGTGGGCATGGTGAAGGAAGTTGTCCGAACA  
GACAGCCTGAAGGGGCGGCGGGGCCGGCTACCTTCAAAACCCAAGCAGCCCCCAGATGCCTCCCCTGCCAATCTC  
CTCACTTCCCTGGTCCGTGCACACCTGGACTCAGGGCCCAGCACTGCCAACTGGACTACTCCAAGTTCCAGGAG  
CTGGTGTGCCCCACTTTGGGAAGGAAGATGCTGGGGATGTACAGCAGTTCTACGACCTGCTCTCCGGTTCTCTG  
GAGGTCTATCCGCAAGTGGGCGGAGAAGATCCCTGGCTTTGCTGAGCTGTACCCGGCTGACCAGGACCTGTTGCTG  
GAGTCGGCCTTCTGAGCTCTTCATCCTCCGCTGGCGTACAGGTCTAAGCCAGGCGAGGGCAAGCTCATCTTC  
TGCTCAGGCCTGGTGCTACACCGGCTGCAGTGTGCCCGTGGCTTCGGGGACTGGATTGACAGTATCCTGGCCTTC  
TCAAGGTCCCTGCACAGCTTGCTTGTCGATGTCCCTGCCTTCGCCTGCCTCTCTGCCCTTGTCTCATCACCGAC  
CGGCATGGGCTGCAGGAGCCGCGGGCGGTGGAGGAGCTGCAGAACCGCATCGCCAGCTGCCTGAAGGAGCACGTG  
GCAGCTGTGGCGGGCGAGCCCCAGCCAGCCAGCTGCCTGTACGTCTGTTGGGCAAACCTGCCCGAGCTGCGGACC  
CTGTGACCCAGGGCCTGCAGCGCATCTTCTACCTCAAGCTGGAGGACTTGGTGCCCCCTCCACCCATCATTGAC  
AAGATCTTCATGGACACGCTGCCCTTCTGACCCCTGCCTGGGAACACGTGTGCACATGCGCACTCTCATATGCCA  
CCCCATGTGCCTTTAGTCCACGGACCCCCAGAGCACCCCCAAGCCTGGGCTTGAGCTGCAGAATGACTCCACCTT  
CTCACCTGCTCCAGGAGGTTTGCAGGGAGCTCAAGCCCTTGGGGAGGGGATGCCTTCATGGGGGTGACCCACG  
ATTTGTCTTATCCCCCCCAGCCTGGCCCCGGCCTTTATGTTTTTTGTAAGATAAACCGTTTTTAACACATAGCGC  
CGTGCTGTAAATAAGCCAGTGTGCTGTAAATACAGGAAGAAAGAGCTTGAGGTGGGAGCGGGGCTGGGAGGAA  
GGGATGGGCCCCGCTTCTGGGCAGCCTTTCCAGCCTCCTGCTGGCTCTCTCTTCTTCCCTACCCTCCTTCCACATGT  
ACATAAACTGTCACTCTAGGAAGAAGACAAATGACAGATTCTGACATTTATATTTGTGTATTTTCTGGATTTAT  
AGTATGTGACTTTTCTGATTAATATATTTAATATATTGAATAAAAAATAGACATGTAGTTG.



211/5332  
**FIGURE 191A**

CCGAAGCCGGCGACCGCCCCACCTCCTCCCTCCCTCCCGCCCGCTTCTCTGCCACAGCGCCGGCCAGAGCGAG  
CTAGACAAGGGCACGCGGGGCTCGCCTAGACCCGAGAAGACTGCGGGCGCGCAAGCGGCGGCGTGGAAGCTG  
TGAGCGCCCCCATCCCGGAGGTCTCCGCCGGCTCCCGGGTGAATCAGCTCCCGGCCGACTTAGGATTCTTCTGG  
ATTTTAAATTTTTTCTTTTTAAAAAACTTGGACGGATAAAAGATGTGCCATGGCAGGATAGCACCAAAGAGCAC  
CTCAGTGTTTGCCGTGGCCTCCGTGGGACATGGAGTGTTCCCTCCGCTAGTGATCCTTGCACCCTGCTTGGAGA  
CGGACTTGCTTCCGTGTGCCCCCTACCACCGGAGCCAGAGAATGGTGGCTACATCTGCCACCCCGGGCCCTGCAG  
AGACCCCTTGACAGCAGGCAGTGTCATCGAATACCTGTGTGCTGAAGGCTACATGTTGAAGGGCGATTACAAATA  
CCTGACGTGTAAGAATGGCGAGTGGAACCCAGCCATGGAGATTAGCTGCCGTCTCAACGAGGATAAAGACACCCA  
CACATCACTTGGGGTCCCCACGCTGTCTATAGTGGCTTCTACTGCCAGCTCCGTGGCGCTCATTCTCCTCCTCGT  
GGTGCTGTTTGTGCTGCTGCAGCCAAAGCTGAAGTCTTTCCATCATAGCAGGCGTGACCAGGGGGTATCTGGGGA  
CCAGGTCTCCATCATGGTGGATGGAGTCCAGGTTGCACTACCATCATACGAGGAGGCTGTATATGGCAGTTCTGG  
TCACTGTGTGCCACCTGCTGACCCCAGAGTACAGATTGTGCTGTGAGAAGGGTCTGGGCCCAGTGGGAGGAGCGT  
GCCAAGGGAGCAACAGCTGCCGGACCAAGGGGCTGCTCCTCTGCAGGTGGAGAAGATGAGGCCCCAGGCCAGTC  
TGGACTATGTGAAGCCTGGGGCTCTCGGGCTCAGAGACTGTGATGGTGCATCAGGCAACCACCTCTTCTGGGT  
GGCCGGCTCAGGGAACCGCCAACCTGGCACACAAAGAACTGCAGATTAGAGAACAGTGACATACAAAGCCTTTT  
ATCCCTCACGTGAGAGGAGTACACAGATGATATCCACTGTTGAAAGAAGCATGAGGGCAGCGGCCAGCCTTTCC  
TCTCTGCGAGGTTCTCTCAGCCCTTCTCCTCCTCCTCTGTTGGGATTGAGCACCTGTACTCTCCAGCCACCTTAC  
CTGGATACCTGAGCTGCCACCTGTGTATCTGTGTATCTCTGAGGGCCCTATAGGCCACCTTGCTGGAACTCAA  
GGAAGATTCTCGCCATCTGCCTGTTGGACAGCTGGAGGAGCTGGCTCTTTGCCTGGCCCCGCCTTCCCATCTGTC  
AGAGACATATTTGAATGTGCTGGATCAAACCTCCTTTTCTTAAGCCTCTGGGTCCCCCTCCAGCCAGCTCTTTG  
GCGGCAGCCCCCACCAGCTCCTGTGGGCTGAGTGCTGCTGTGTTTACTTGTGCCTTTCCCCACCCTGTCCAGT  
TTCCCTGTGATGCAGACTTGTTGCTGTCCACAAGCCTTAGTGGCTGCACTGCTGCCCCCTGCCACACAGGGGGCC  
GGGCTTGGGTCTGTCTGTTTCTTTGAGGGTTGCCCTACTGCCCTTTGCAGGAACAGATCCAGGTGTGAGAGC  
TCTTGAGTCAAGAGTGGCAGAAGTGGCTCTAATTGGGGTGAGAGTGTAGTCCCTGGGCTTGCCCTGGGTGACCC  
TGGTGGCATATTTCTTGGCTGAGGATGGAAGATTGGAGAATCATGTCCATGCTGGCCCAGGACCCAGCCATCT  
GGCCCAAAGGCACAAGCTCCTGGCCCTGTTGAGTTGAGAGTTTCCAAGAAGCATCCAGAAGATCCCAAGGGAGAG  
AAGGAAAATGGCTGATAATGATTGTCTTCTTAATATGCAAGTTCTCACTTCTTACTTCCAGCATCGGCCTTCTG  
GCCTTGCTTTTTTTTTGTTTCCCTGGAGTATAATGGGAAGTTGCATGCTGCCTCCTGGGTTTTATCCCAGATAGC  
TCTGGCTTTCTTGCTGCCACAGGGGCTGGGGCAGGAAGGAGACTTGCTGAGATGCCATGGAGTGCCCATCTGG  
TCACTGGCAGTCTGGGCAGGTTGCCCTTTCTGGGTTTGTGGTGACGGAGGGGAGGCCGAGAGGCACAGACCAAG  
TCCCCGGGTGGCTGCAGGCAGCTCCAGCCCGGTCTGAGGATCCTCCTACCATGGTCACGTGCCTTAGTAACTG  
TGCCAGGAAGTGGCCTGCTGCTGTGCTGTGCTGCTTTTCTACTTCTGCCCTTCCCTGCCACCCCTCGCATG  
TCACAGCTGACAAGCAATTCCTTGCTTCCCTGGCCCCCTGGGGGAAGGGCTGAGAAACAGTCCGTGTGCACCCC  
AACCTTAATGGCCTGAGGTGGGCAGAGGGGTGTGGAGCAGCCTGGAGTACAGGGCCCTGGGGGAGGAGCCACTG  
ATGAGGGGCGCTCTCCCATAGCCATGTGTTGAATGCTAACTAGGCTGGGGTGGACGAACTCTGCCAACTGCTGTC  
ATCTTAGAAGATAGATGCAGCAGTAAGGAATGTTTGTGTTTTCTGAAATTTTCTGAAGCACTGTGGCTG  
GGAACTTCGAAGCGGACCCCTGTGCTGCATGTCTGCTCCTCCCTGAGCCTGTCTGCTTGGGGGTGGTAAAAATA  
AAAATCCCAGTTTATTTTTCAGTACCTTACCTAACAGGGTTGGCTCCAGGCGTGGGTGGCCTAGAAGATGAGGGGA  
GTGGTCTTCTCCAGCCTTTTACCCTCTTGCTCCTGCCTCCGCGCTTACACACGCACTTTACCACCCGGTCATT  
CCCTGGCCTCTTGCTGCCACTTGTAGTCTTCTTCTTCTCCTCTCAGGGTAAGGGCAGTGCTGTGCTGTTG  
GCCACTCCACACTTCCCCCTCCCCCAGGAGCCCTCATCTGCTGTGCTGAGTCCAGGAAAGCATAGTTAGGTAGGG  
AGCTGGTTGGAGAAGGTGCTAGAACTAGAAGGCAGATGAGACTAGCATGGGCCCACCTGGAGGGCTGTCCCTAAT  
GGCCCCAGTCGCCTTACCTCACCCACAGCAGTGCCCTTGTCTTCTCCAAAACAGAAAGCAGTGACAAAAGGGGG  
AGGGGTGGTAATCTGAAGTCTCACTGCTGAGCCTTCAGCTTTTATTTTTCTACTGTTTCAAACCCGCATTCTATT  
CTAGAATGGTTTTTAAATGGAAGATCTTACCTTTTCTATCTTGTACTCTGGGGTTTTGTCCCCCTAAGAGAT  
TGCATTTTTGTTTGGGGTTTATTCAGCTGCATAGATGACCAGCTTGATCCCTGGTGAAATGAAAAGCCTTCTT  
CTCCTGAAGCCTCTTCCGCCCTGCCCTCCACTAACAACTGAGGAGCACAAAGCCAGGCTTGCCACCTGGTA  
GGAAGGAAGAAATTAGAACAATGGGAGCCTTGCTCCCTCTCGTCTCCTCCCTCCTTCTGTCACTGGCTTT

GATGATAGGCCCCACTTCCACAGAGGCTCCTGGGCCCTGTGAGTGCAGGAGCTCATTCTCCCTCACTGCTGAAGTCTGT  
GACAGCTTCTTCTCCAGTTATGTCTTTCTTCCAAAGCAATTTCTTAACCATCAGCCATGTGCTGCTATTTCTAG  
GGCTTCTGGGCTTTGTCCCTTACTGAGAGATTAGGGACTCCACAGCTGCCTTGAGGTAGGGCCTGGCTGAGAGAC  
AAGGGTAGCAGCAGGTGGCAGGCTGTTAAAAAGACAGGCTGCCTGAGGAGCCTGGAGCAGGTGGAACAGGTGGAA  
GAAACCGGCCACAGCCCTGCTTTACCGGGCTCACCTCTAGGGCATTCCAGCAAGAGGCTGATGCAGGAGAATGGC  
CAGCACCAAAGGACATTTAAAGAGTTTTTGGGTTTTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTTTTTTTTTTT  
TTTTTTGGCACACTTGAGCTGACTCAGTGCAGGTTTAATATCCTGGTGACTTGACAGTCACATTCTAATGACTTTC  
AAGGGCCAGAATATGGTGAAAATCACTTAAAAATATCCGTCCCTTCCATGCCTTAGTTTAGCAGGTAGGCTCTATC  
TTTTGCCATTTCTGTATTTTATGTGCTGTGTTCCCGTTTTCACTGGGTATGAAGTGTGAAATCGACTGAATCCTGG  
CCACTTTATGAGTTTGTTTGGTTTTATAAGGCATTTCAATGTACATTCTATAAATACAAGCACTCCATTTGCAA  
CAGATCTTAAGCTAATATTTTTCTTTCCCATTCATCTTGCCCTCCCCCTCCTCCCGCCAGCTTTAAAGTTTCAGTGG  
AGAAGCCAGATGGCAATTCAGACAAAGGTATACTCTTCTGCTTCATGGGTGGTGGCACGGGAATAGATAGCCCT  
TAGCCCTTTCCCTCCAGTCCAGCTGAGCCCTCAGACCACTTGCTTCCACATAACAATGTGCGCTCCATTTCC  
GAGGAACATCCTTGCGTAGAGAATGAAATATGCTGCAATCATTCTGCATCCTTACTCCTCACCCCCAAAGAAAA  
AAAAAAGGCCTAGCAGGGAAGCAGCATGCAGGCTTCACAGCTTAATGCCAAGGACAGCGAGTGAGGCTGGGAGCT  
TCTCTTGGGCCTGCTGGGTCTGTGAGCTCTCGGAATAGGGACAGTCCCTTACTGGTGCCCCAAGGTGGGACTTGGA  
GAATATTTTGCTTGGCATATGTTTGGTCTGAATGGTGTAGTTGCTGGTTCCCTAGAGAGGAAAAGGTGGCAGGCC  
CAGCTTTGCTGGGAAATGGCTCTTAATTTCCAGTTGAAAACCTAGTAGAATTGTGAATGAAAACCTCAAGGTTGA  
GCCCCCTCGCCAAGCAGCAGAGCTAGTAGAAGGGGATGCAGGGGCAAAGCACTCAGTTGCCAAGCAAGGAGGAGA  
GATGTACGTGGGCTGTGTGGCAGTCCCCACACCCTGCCCTGGCTTCTTCAGGTTATCGCACCACTATGGAATCCT  
TTGCAGAAATGGTACTCATATAATGGTTTTAAAAACAACATTCATAATTGACTCTGTGCAGGATGTCACTCAATCA  
GTTTGGGTTTGCTTTATTTTATTTTATATATATATTTTTTTGGTATCCTGTACATTGCAGTGGGTGTGAAGATAGT  
ATTTTAATATTTGTACAAAGTTTAATTTAATTTTAATTGTTCTATGTATATAACTGCATTTCTAAATAATTAAAA  
AAAAGTTCCTTAG

213/5332  
**FIGURE 192**

CCGTGGAGGTCGACGACTCCGTCGCAGACTACGGACCTGTCTGGGTCTCAGCCGCCAAAGACCCCGTCCGGTAGG  
TGAGTGGCTCAGTTTGAAGGCAAGCCTTCTCGGATCGAGGCTTCTTCATGGCCGCTCAGATCGTGAGCGGCCGGG  
GCTGCTCTCTTTGCGGAGGATGGCGTCTAATGAGCGCAGTTGATTGAGGAAGTACTAGCCGGACATCATGAGTG  
GCTGTGCGGTATTTCATCGGGAGACTAAATCCAGCGGCCAGGGAGAAGGACGTGGAAAGATTCTTCAAGGGATATG  
GACGGATAAGAGATATTGATCTGAAAAGAGGCTTTGGTTTTGTGGAATTTGAGGATCCAAGGGATGCAGATGATG  
CTGTGTATGAGCTTGATGGAAGAAGTCTGTAGTGAAAGGGTTACTATTGAACATGCTAGGGCTCGGTACAGAG  
GTGGAAGAGGTAGAGGACGATACTCTGACCGTTTTAGTAGTCGCAGACCTCGAAATGATAGACGGTATGTGAAGG  
GTGGATGGCTGCATTTGAACAATTATTGTAGGGGTAGCATTTAAGATTCAGGAGTCATTAGCAGTGATGATTTTGG  
GTCCTGCCGTATAATCTGTTCTTCTATTCCCACGTTAGCCAGTTGTTCTTGATGAATCTATATGAGTCATAGAAC  
ACAAATCTATTGACGGAAGTCATTAGAATGGCTTGATATCTGATGGCTTGAACCTGCCCACAGTTGAACACAA  
GTGCTGTCATTGCATTTCTTCCATTGTGAATACGAATTTTCTTCTCAGAAATGCTCCACCTGTAAGAACAGAAA  
ATCGTCTTATAGTTGAGAATTTATCCTCAAGAGTCAGCTGGCAGGATCTCAAAGATTTTCATGAGACAAGCTGGGG  
AAGTAACGTTTGCGGATGCACACCGACCTAAATTAAATGAAGGGGTGGTTGAGTTTGCCCTCTTATGGTGACTTAA  
AGAATGCTATTGAAAACTTTCTGGAAGGAAATAAATGGGAGAAAAATAAAATTAATTGAAGGCAGCAAAAGGC  
ACAGGTCAAGAAGCAGGTCTCGATCCCGGACCAGAAGTTCCTCTAGGTCTCGTAGCCGATCCCGTTCCCGTAGTC  
GCAAATCTTACAGCCGGTCAAGAAGCAGGAGCAGGAGCCGGAGCCGGAGCAAGTCCCGTTCTGTTAGTAGGTCTC  
CCGTGCCGTGAGAAGAGCCAGAAACGTGGTTCTTCAAGTAGATCTAAGTCTCCAGCATCTGTGGATCGCCAGAGGT  
CCCGGTCCCGATCAAGGTCCAGATCAGTTGACAGTGGCAATTAACTGTAAATAACTTGCCCTGGGGGCCTTTTT  
TTAAAAAACAAAAACCACAAAAATCCCAAACCATCTTGCTAAAAATCTGGTAAGTATGTGCTTTTCTGTGGG  
GGTGGGATTTGGAAGGGGGGTGGGTGGGCTGGATATCTTTGTAGATGTGGACCACCAAGGGGTGTTGAAAAC  
TAATTGTATTAAATGTCTTTTGATAAGCCTTCTGCTCACATTTTTGTGAATGTCTGAAGTATATAGTTTGTGTAT  
ATTGACAGAGCTCTTTTATAACTAAAGCAAATTTAATTTTTTGTACTAGAAAAAAATTTGAACATTTTAGTTCT  
TGGTTATAAAAATGTTAATTCAGAAATTAGTTAATGCCTTAATTAACTAATTAATAGCTTTGGACACTTAAAG  
AGCTCTAAATTTGCTTGTACATAAAGGCTTAATTTGTTTTCTTGTTAGGGTCAAGGGTGTCTCCACTCTTTAA  
CAGCTGCTGGACAGACACATTAGAGCAGCTGTTTGTATTGATAATAAAATATTATAAAACTA

214/5332  
**FIGURE 193**

CCTGCTGCCGCTGGGCCCCGCCGAGCGGAGCTAGCGCCGCGCGCAGAGCACACGCTCGCGCTCCAGCTCCCCCTC  
CTGCGCGGTTTCATGACTGTGTCCCCTGACCGCAGCCTCTGCGAGCCCCCGCCGAGGACCACGGCCCCGTCCCCG  
CCGCCGCGAGGGCCCCGAGCGAAGGAAGGAAGGGAGGCGCGCTGTGCGCCCCGCGGAGCCCGCGAACCCCGCTCG  
CTGCCGGCTGCCAGCCTGGCTGGCACCAATGCTGCCCGCGCGCTGCGCCCCGCTGCTCACGCCCCACTTGCTGCT  
GGTGTGGTGAGCTGTCCCCTGCTCGCGGCCACCGCACACAGGCCCCAGGTTTCTAATAAGTGACCGTGACCC  
ACAGTGCAACCTCCACTGCTCCAGGACTCAACCCAAACCCATCTGTGCCTCTGATGGCAGGTCCTACGAGTCCAT  
GTGTGAGTACCAGCGAGCCAAGTGCCGAGACCCGACCCTGGGCGTGGTGATCGAGGTAGATGCAAAGATGCTGG  
CCAGAGCAAGTGTCGCTGGAGCGGGCTCAAGCCCTGGAGCAAGCCAAGAAGCCTCAGGAAGCTGTGTTTGTCCC  
AGAGTGTTGGCGAGGATGGCTCCTTTACCCAGGTGCAGTGCCATACTTACACTGGGTACTGCTGGTGTGTACCCCC  
GGATGGGAAGCCCATCAGTGGCTCTTCTGTGCAGAATAAACTCCTGTATGTTTCAGGTTTCAGTCACCGACAAGCC  
CTTGAGCCAGGGTAACCTCAGGAAGGAAAGATGACGGGTCTAAGCCGACACCCACGATGGAGACCCAGCCGGTGT  
CGATGGAGATGAAATCACAGCCCCAACTCTATGGATTAAACACTTGGTGATCAAGGACTCCAAACTGAACAACAC  
CAACATAAGAAATTCAGAGAAAGTCTATTCTGTGTGACCAGGAGAGGCAGAGTGCCCTGGGAAGAGGGCCAGCAGAA  
TCCCCGTGAGGGTATTGTTCATCCCTGAATGTGCCCTGGGGGACTCTATAAGCCAGTGCAATGCCACCAGTCCAC  
TGGCTACTGCTGGTGTGTGCTGGTGGACACAGGGCGCCCGCTGCCTGGGACCTCCACACGCTACGTGATGCCCAG  
TTGTGAGAGCGACGCCAGGGCCAAGACTACAGAGGCGGATGACCCCTTCAAGGACAGGGAGCTACCAGGCTGTCC  
AGAAGGGAAGAAAATGGAGTTTATCACCAGCCTACTGGATGCTCTCACCAGTGCATGGTTTCAGGCCATTAACCTC  
AGCAGCGCCCACTGGAGGTGGGAGGTTCTCAGAGCCAGACCCAGCCACACCCTGGAGGAGCGGGTAGTGCACTG  
GTATTTTCAGCCAGCTGGACAGCAATAGCAGCAACGACATTAACAAGCGGGAGATGAAGCCCTTCAAGCGCTACGT  
GAAGAAGAAAGCCAAGCCCCAAGAAATGTGCCCGGCGTTTACCGACTACTGTGACCTGAACAAAGACAAGGTCAT  
TTCCTGCTGAGCTGAAGGGCTGCCTGGGTGTTAGCAAAGAAGGACGCCTCGTCTAAGGAGCAGAAAACCCAAG  
GGCAGGTGGAGAGTCCAGGGAGGCAGGATGGATCACCAGACACCTAACCTTCAGCGTTGCCCATGGCCCTGCCAC  
ATCCCGTGTAACATAAGTGGTGCCCAACCATGTTTGCATTTTAACTAATCTTACTTGCGTGTTTTGTTTTTGGTT  
TCATTTTAAACACCAATATCTAATAACCACAGTGGGAAAAGGAAAGGGAAGAAAGACTTTATTCTCTCTCTTATT  
GTAAGTTTTTGGATCTGCTACTGACAACCTTTTAGAGGGTTTTGGGGGGGTGGGGGAGGGTGTTGTTGGGGCTGAG  
AAGAAAGAGATTTATATGCTGTATATAAATATATATGTAAATTGTATAGTTCTTTTGTACAGGCATTGGCATTGC  
TGTTTGTTTATTTCTCTCCCTCTGCCTGCTGTGGGTGGTGGGCACTCTGGACACATAGTCCAGCTTTCTAAAATC  
CAGGACTCTATCCTGGGCCTACTAACTTCTGTTTGGAGACTGACCCTTGTGTATAAAGACGGGAGTCCTGCAAT  
TGTAAGTGCAGTCCACGAGTTCTTTTCTGGTGGGAGGACTATATTGCCCCATGCCATTAGTTGTCAAATTTGAT  
AAGTCACTTGGCTCTCGGCCTTGTCCAGGGAGGTTGGGCTAAGGAGAGATGGAACTGCCCTGGGAGAGGAAGGG  
AGTCCAGATCCCATGAATAGCCACACAGGTACCGGCTCTCAGAGGGTCCGTGCATTCTGCTCTCCGGACCCCC  
AAAGGGCCCAGCATTGGTGGGTGCACCACTATCTTAGTGACCCCTCGGAGCAAATTATCCACAAAGGATTTGCATT  
ACGTCACTCGAAACGTTTTTCATCCATGCTTAGCATCTACTCTGTATAACGCATGAGAGGGGAGGCAAGAAGAAA  
AAGACACACAGAAGGGCCTTTAAAAAAGTAGATATTTAATATCTAAGCAGGGGAGGGGACAGGACAGAAAGCCTG  
CACTGAGGGGTGCGGTGCCAACAGGGAACTCTTACCTCCCTGCCAACCTACCAGTGAGGCTCCCAGAGACGCA  
GCTGTCTCAGTGCCAGGGGCAGATTGGGTGTGACCTCTCCA

215/5332  
**FIGURE 194**

AAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCAGCTGTCGTGAAGAAGCAGGAGGCT  
AAGAAAGTGGTGAATCCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAAGA  
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGCGGCTG  
AAAGTGCCTCCTGCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC  
CACAAGTACAGGCCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCGGGCCGAGAAGAAAGCTGCTGGC  
AAAGGGGACGTCCCGAAGAAGAGACCACCTGTCCTTCGAGCAGGAGTTAACACTGTCACCACCTTGGTGGAGAAC  
AAGAAAGCTCAGCTGGTGGTGATTTACACGACATGGATCCCATCGAGGGGGAAGGCAAGACTGGGACGTCTAGT  
CCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCAGAAGACAAAGGCGCTTTGGCTAAGCTGGT  
GGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGGGGTGGCAATGTCCTGGGTCC  
TAAGTCTGTGGCTCGTATCGCCAAGCGCAAAAAGGCAAAGGCTAAAGAACTTGCCACTAACTGGGTTAAATGTA  
CACTGTTGAGTTTTCTGTACATAAAAAATAATTAAATAATACAAATTTTCCTT

216/5332  
**FIGURE 195**

TGTTTCCGCTGCATCCAGACTTCCTCAGGCGGTGGCTGGAGGCTGCGCATCTGGGGCTTTAAACATACAAAGGGA  
TTGCCAGGACCTGCGGCGGCGGGCGGGCGGGGGCTGGGGCGCGGGGGCCGGACCATGAGCCGCTGAGCCGG  
GCAAACCCAGGCCACCGAGCCAGCGGACCCCTCGGAGCGCAGCCCTGCGCCGCGGAGCAGGCTCCAACCAGGCGG  
CGAGGCGGCCACACGCACCGAGCCAGCGACCCCGGGCGACGCGCGGGGCCAGGGAGCGCTACGATGGAGGCGCT  
AATGGCCCGGGGCGCGCTCACGGGTCCCCTGAGGGCGCTCTGTCTCCTGGGCTGCCTGCTGAGCCACGCCGCCGC  
CGCGCCGTCGCCCATCATCAAGTTCCCCGGCGATGTGCCCCCAAACGGACAAAGAGTTGGCAGTGAATACCT  
GAACACCTTCTATGGCTGCCCCAAGGAGAGCTGCAACCTGTTTGTGCTGAAGGACACACTAAAGAAGATGCAGAA  
GTTCTTTGGACTGCCCCAGACAGGTGATCTTGACCAGAATACCATCGAGACCATGCGGAAGCCACGCTGCGGCAA  
CCCAGATGTGGCCAACTACAACCTTCTTCCCTCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCAT  
TGGCTACACACCTGATCTGGACCCAGAGACAGTGGATGATGCCTTTGCTCGTGCTGCCTTCCAAGTCTGGAGCGATGT  
GACCCCACTGCGGTTTTCTCGAATCCATGATGGAGAGGCAGACATCATGATCAACTTTGGCCGCTGGGAGCATGG  
CGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTGGGGGAGA  
CTCCCATTTTGATGACGATGAGCTATGGACCTTGGGAGAAGGCCAAGTGGTCCGTGTGAAGTATGGGAACGCCGA  
TGGGGAGTACTGCAAGTTCCCCTTCTGTTCAATGGCAAGGAGTACAACAGCTGCACTGATACCGGCCGAGCGA  
TGGCTTCCCTCTGGTGCTCCACCACCTACAACCTTGAGAAGGATGGCAAGTACGGCTTCTGTCCCCATGAAGCCCT  
GTTACCATGGGCGGCAACGCTGAAGGACAGCCCTGCAAGTTTCCATTCCGCTTCCAGGGCACATCCTATGACAG  
CTGCACCACTGAGGGCCGCACGGATGGCTACCGCTGGTGCGGCACTGAGGACTACGACCGCGACAAGAAGTA  
TGGCTTCTGCCCTGAGACCGCCATGTCCACTGTTGGTGGGAACCTCAGAAGGTGCCCCCTGTGTCTTCCCCTTAC  
TTTCTGGGCAACAAATATGAGAGCTGCACCAGCGCCGGCCGAGTGACGGAAAGATGTGGTGTGCGACCACAGC  
CAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTGACCAAGGGTACAGCCTGTTTCTCGTGGCAGCCACGA  
GTTTGGCCACGCCATGGGGCTGGAGCACTCCCAAGACCCTGGGGCCCTGATGGCACCCATTTACACCTACACCAA  
GAACCTCCGTCTGTCCCAGGATGACATCAAGGGCATTACAGGAGCTCTATGGGGCTCTCCTGACATTGACCTTGG  
CACCGGCCCCACCCCAACGCTGGGGCCCTGTCACTCCTGAGATCTGCAACAGGACATTGTATTTGATGGCATCGC  
TCAGATCCGTGGTGAGATCTTCTTCTTCAAGGACCGTTTCAATTTGGCGGACTGTGACGCCACGTGACAAGCCCAT  
GGGGCCCTGCTGGTGGCCACATTCTGGCCTGAGTCCCGGAAAAGATTGATGCGGTATACGAGGCCCCACAGGA  
GGAGAAGGCTGTGTTCTTTGCAGGGAATGAATACTGGATCTACTCAGCCAGCACCCCTGGAGCGAGGGTACCCCAA  
GCCACTGACCAGCCTGGGACTGCCCCCTGATGTCCAGCGAGTGGATGCCGCTTTAACTGGAGCAAAAACAAGAA  
GACATACATCTTTGCTGGAGACAAATTCTGGAGATACAATGAGGTGAAGAAGAAAATGGATCCTGGCTTCCCCAA  
GCTCATCGCAGATGCCTGGAATGCCATCCCCGATAACCTGGATGCCGCTCGTGGACCTGCAGGGCGGCGGTACAG  
CTACTTCTTCAAGGGTGCTTATTACCTGAAGCTGGAGAACCAGTCTGAAGAGCGTGAAGTTTGGAAAGCATCAA  
ATCCGACTGGCTAGGCTGCTGAGCTGGCCCTGGCTCCCACAGGCCCTTCTCTCCACTGCCTTCGATACACCGGG  
CCTGGAGAACTAGAGAAGGACCCGAGGGGCTGGCAGCCGTGCCTTACGCTCTACAGCTAATCAGCATTCTCAC  
TCCTACCTGGTAATTTAAGATTCCAGAGAGTGGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCC  
CAGGCGCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGATACTTTGATATTTTCAACGC  
AGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTACAACCTTCTGTGGCTCACAGA  
ACCCTTGGAGCCAATGGAGACTGTCTCAAGAGGGCACTGGTGGCCCGACAGCCTGGCACAGGGCAGTGGGACAGG  
GCATGGCCAGGTGGCCACTCCAGACCCCTGGCTTTTCACTGCTGGCTGCCTTAGAACCTTTCTTACATTAGCAGT  
TTGCTTTGTATGCACTTTGTTTTTTTCTTTGGGTCTTGTTTTTTTTTCCACTTAGAAATTGCATTTCTGACAG  
AAGGACTCAGGTTGTCTGAAGTCACTGCACAGTGCATCTCAGCCACATAGTGATGGTTCCCCTGTTCACTCTAC  
TTAGCATGTCCCTACCGAGTCTTCTTCTCACTGGATGGAGGAAAACCAAGCCGTGGCTTCCCGCTCAGCCCTCCC  
TGCCCTCCCTTCAACCATTCCCCATGGGAAATGTCAACAAGTATGAATAAAGACACCTACTGAGTGGC

217/5332  
**FIGURE 196**

CACATGTAAACTACTTGAAGTCCATTTTCATCTTTTTTCATACCATCTCTAAGATTGCTGCCGCATTTGCTTGTTA  
AACTGAAAGCATGTTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGICTTGGAGAAGCTCTTGAGGCCCT  
CTTTGGAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATT  
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACCGCTCCCACTCAGCAGCATTTACACAGTGTGGAGGC  
CTCAGAAAAGTGAGGAAGTTAGGCGATTTTCGGCAACAATTTACACAGCTGGCTGGACCAGACATGGAGGTGGGTGC  
CACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGACGGTTTTAGTCTTGA  
CACCTGCCGGAGCATTTGTGTCTGTCTATGGACAGTGACACGACTGGTAAGCTGGGCTTTGAAGAATTTAAGTATCT  
GTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGGACCATTCTGGGTCTCTGGGAAGTTC  
TCAGCTGCGGGGAGCTCTGCAGGCCGCAGGCTTCCAGCTAAATGAACAACCTTTACCAAATGATTGTCCGCCGGTA  
TGCTAATGAAGATGGAGATATGGATTTTAAACAATTTTCATCAGCTGCTTGGTCCGCCTGGATGCCATGTTTCGTGC  
CTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGATTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTA  
TTCCTGAAGTGGGAAGTGAAGTCAAGATCCTCCCTGGAGGACAGGACTGAAAACCTTGCCAAGCTGTACACAG  
TTGCTGATACCCTGTGCAACAGCTCTCATTTTCTGGCAAGCTCTTTCACAACCCTACATATTTCTGATCATGTGC  
TGCCTTTTACTGCTGAATTAAACAGATATTTCA

218/5332  
**FIGURE 197**

CCTCGGCGTGCCCCAGGACCGGTAAAGTTCTCTCGCCAGCCGCATCCATGCTTCTGGCGCGGATGAACCCGCA  
GGTGCAGCCCGAGAACAAACGGGGCGGACACGGGTCCAGAGCAGCCCCCTTCGGGCGCGCAAACTGCGGAGCTGCT  
GGTGGTGAAGGAGCGCAACGGCGTCCAGTGCCTGCTGGCGCCCCGCGACGGCGACGCGCAGCCCCGGGAGACCTG  
GGGCAAGAAGATCGACTTCTGCTGTCCGTAGTGGCTTCGCAGTGGACCTGGCCAACGTGTGGCGCTTCCCCCTA  
CCTCTGCTACAAGAACGGCGGGCGGTGCCTTCTTGATCCCGTACACACTGTTCTTATCATCGCGGGGATGCCCCCT  
GTTCTACATGGAGCTGGCTCTGGGACAGTACAACCGGGAGGGGGCTGCCACCGTTTGGAAAATCTGCCCATTTCTT  
CAAAGGCGTTGGCTATGCTGTATCCTGATCGCCCTGTACGTTGGCTTCTACTACAACGTCATCATCGCCTGGTC  
ACTCTACTACCTCTTCTCCTCCTTACCCCTCAACCTGCCCTGGACCGACTGTGGCCACACCTGGAACAGCCCCAA  
CTGTACCGACCCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACCACACCAAGTACTCCAAGTACAAGTTCACGCC  
GGCAGCCGAGTTTTATGAGCGTGGTGTCTGTCACCTTACGAGAGCAGCGGGATTTCATGACATCGGCCTGCCCCA  
GTGGCAGCTCTTGGCTCTGTCTGATGGTGTCTGTCATCGTCTTGTATTTTAGCCTCTGGAAAGGGGTGAAGACATC  
AGGAAAGGTGGTGTGGATCACAGCCACGCTGCCTTACTTCGTGCTGTTTCGTGCTCCTGGTCCATGGCGTCACGCT  
GCCCCGAGCCTCCAATGGCATCAATGCCTACCTGCACATCGACTTCTACCGCTTGAAAGAGGGCCACGGTATGGAT  
TGATGCCGCAACTCAGATATTTTTTTCCTTGGGGGCTGGATTTGGAGTATTGATTGCATTTGCCAGTTACAACAA  
ATTTGACAACAACCTGTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCTCTGGGTT  
CGCCATCTTCTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGC  
TGGCCTAGTGTTTCATCCTGTATCCAGAGGCCATTTCTACCCTGTCTGGATCTACATTCTGGGCTGTTGTGTTTTT  
CGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTCTATCACGGGCCTGGCAGATGA  
CTTCCAGGTCTGAAGCGACACCGGAAACTCTTACATTTGGCGTACCTTCAGCACTTTCCTTCTCGCCCTGTT  
CTGCATAACCAAGGGTGAATTTACGTCTTGACCCTCCTGGACACCTTTGCTGCGGGCACCTCCATCCTTTTTTGC  
TGTCCTCATGGAAGCCATCGGAGTTTCTGTTTATGGAGTGGACAGGTTTCAGCAACGACATCCAGCAGATGAT  
GGGGTTTCAGGCCGGGTCTATACTGGAGACTGTGCTGGAAGTTCGTGAGTCCCTGCCTTCCTCCTGTTCGTGGTTGT  
GGTCAGCATCATCAACTTCAAGCCACTCACCTACGACGACTACATCTTCCCGCCCTGGGCCAACTGGGTGGGGTG  
GGGCATCGCCCTGTCTCCATGGTCCCTGGTGCCCATCTACGTCTCTATAAGTTCCTCAGCACGCAGGGCTCTCT  
TTGGGAGAGACTGGCCTATGGCATCACGCCAGAGAACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGTT  
CCAGTTGCAACACTGGCTGGCCATCTGAGCCTGCCTGGAGGAGAAGGAGGAACCCCCATGCCAATGTCCAGGTCA  
CAGGCATCCGCTGCGCTCCACCTCGGACACCATCTTGGGATTCTCCCTGGAAGTTGTCTTTCTGATCCTCT  
CTTCTTTTCCCATTTACAAATGATTTTCGTGACTGTAGTTTTTGTTCACCTTCTGTGCATCTGGCCTGGGGGCTGT  
TAGCTCAGAGGAGAGGAGCAACAGGAAAATGACTT



219/5332  
**FIGURE 198**

CTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCTCTGGTGCGAAATTCCGGATT  
CCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCG  
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA  
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTTCGACAACGAAAGTCATACCGTAGAAAAG  
ATGGCGTGTTTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCA  
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCATGAT  
TCTCCAGTATATTTGTAAAAATAAAAAAACTAAACCCATT

220/5332  
**FIGURE 199**

CCGGAAGTGACCTCTAGAGCGGTGGTGAACTGGCAGTTGACGGCTCCTGGGACTAGATCCCGCGAGGTAGCCCC  
CGAACTATTTCTCTACGTTTTCTCTTGATCCTCCCGAAATCTTCCAGATCCGCGTAGTGAGGAATCGTCTCCACC  
GTCATGGGGGGCGGAGACCTGAATCTGAAGAAGAGCTGGCACCCGAGACCCTCAGGAATGTGGAGAAAGTGTGG  
AAGGCCGAGCAGAAGCATGAGGCTGAGCGGAAGAAGATTGAGGAGCTTCAGCGGGAGCTGCGAGAAGAGAGAGCC  
CGGGAAGAGATGCAGCGCTATGCGGAGGATGTTGGGGCCGTCAAGAAAAAAGAAGAAAAGTTGGACTGGATGTAC  
CAGGGTCCTGGTGGGATGGTGAACCGTGACGAGTACCTGCTGGGGCGCCCCATTGACAAATATGTTTTTGAGAAG  
ATGGAGGAGAAGGAGGCAGGCTGCTCTTCTGAAACAGGACTTCTCCAGGCTCTATCTTTGCCCCATCAGGTGCC  
AATTCCCTTCTTGACATGGCCAGCAAGATCCGGGAGGACCCACTCTTCATCATCAGGAAGAAGGAGGAGGAGAAA  
AAACGAGAGGTATTAATAATCCAGTGAAAATGAAGAAAATCAAAGAATTGTTGCAAAATGAGTCTGGAAAAAAG  
GAGAAGAAGAAAAAGAAGGAGAAGAAAAAGAAGCACAAGAAACATAAGCACAGAAGCTCGAGTAGTGATCGTTCC  
AGCAGCGAGGATGAGCACAGTGCAGGGAGATCACAGAAGAAGATGGCAAATTCCTCCCTGTGTTTGTCCAAAGTC  
CCTGGATATGGCTTACAGGTCCGGAACCTTGACCGTAACCAGGCTCTTCAGGGTCTCTGACAGCAGAGCAAAAG  
AGAGGGCATGGGATGAAGAACCATTCCAGATCCAGAAGCTCCTCCCACTCACCCCCAAGACATGCCAGCAAGAAG  
AGCACCAGGGAAGCAGGGTCCCGGGACAGGAGGTCTCGATCCCTGGGCAGAAGGTACAGGTCCCCAAGACCCAGC  
AACTGCACAACCTCTAAGGTGAACAGGAGAGAGACAGGCCAACTAGGAGCCCATCACCTAAAAAAGAGGTCTAC  
CAAAGCGACATGCTCCCGGATACACCAGAAAACTCTCTGCAGAGGAATTAGAGCGAAAACGGCAAGAGATGATG  
GAAAACGCCAAATGGAGGGAGGAGAGAGACTGAACATCCTCAAGAGGCATGCTAAGGATGAGGAACGGGAGCAG  
AGGCTAGAGAAGCTGGACTCCCGGGATGGGAAGTTCATCCACCGCATGAAGCTGGAGAGTGCATCTACTTCCTCC  
CTGGAGGATCGGGTGAAGCGGAATATCTACTCTTTACAGAGAACTTCGGTAGCTCTGGAGAAGAACTTTATGAAA  
AGATGA~~AA~~AACTGTCCCTCTCTTATTGGTTTTCTGCATTTTCCAGGGAAGCTGCTGACCCCTTAATTCTCTTTA  
TAAGAGTTCAAATGACTTCTTTACAGATGTCAAACCACCAAGTGTTCAAAGTGACCCTGCTTCATTGAGTCCTGA  
AACAGCTCACTTCCTTTGAGAGCTAGTGTGACTTGCTTTGTGGGACACTCAGTAACTTTGGGTTTGA~~CT~~CTTTA  
ACGGGTGGGCAC~~T~~GGACCATCTCGGTGGGAGTGCTTGTGCCACTCTGGAAGGCTGTTCCCTGGGGTTGTGATGTT  
TATCATGCCACTTCCTTCTTACCTGTGCCAACAGACCTATTTCACTGCCTCAGCGTACACCAGACCCTTCAGAAA  
CCTCTCTGGTGTCA~~CC~~CAGATAGATTGTGCTTACTGAGACAAATGAACGTTTACTTGATTTAGAAGATAATGTGA  
CAGAATGATGTCAGGTTAGGTCAAAGCCAAGGGAGTGACAGAATCTGGAAAATCAAACAATACAAAAAGCCCTAA  
ATGA~~ACT~~GTTAACTATTTGATCTTTGGATGTAA~~AA~~TTGTAATGCGTATAIGTACAAATGTACAATTTTACATGC  
TTTTAAAAAAGGTTAGCTTTGTGAAAATACCTTGTTTGGTCAATGACTTTACTGGGTAATAGAACCACATTGAAC  
CTTGATGGCAAGTAATACAATAAGGCAGGCCAGCTCGTTTTCTCTCTGAATCTGGCTGGTTTAGGAGGAGCCTG  
GGTTTATCGACGAGATCTGGAGTATCTATTCTTTTCCACTGCTTGCAGTCTCCAATGTAGGCAGTGTAAGGTAT  
AGTAAAATGATTTTAGGAGTCAGAACCAAATTGCCAATATGCTCCATGGCTCCTAAAGGAAAAATAAAATGGAAGT  
TTTT

221/5332  
**FIGURE 200A**

TTGCGGGAAAGAGCCAAACCCTGGCGTTGGGGGGCCCGGGCGGGGAGCCCCCTCCCGCGGTCCACAGCGACGCGCTG  
CCCAGCCCTCCTCCCCCTTCCGGCTCCGGCACGGGGCCCCGAGGCGTTTCGGAGGCCAGGCGGGTTTCTGTACAGGCC  
CGGGGAGGAGGGGCGGGCGGGGCGGCCGCTGCCTCCCCGGGACGGGCGGTACACGCGGACGGGGAGGACGGGGC  
CAGGGGACTGCAGGGCGGCTGCACCGCCCGGGGCGGGGTGCGGAGCGGGCCGGCGGGCTCCCCGGGGCGGGGCG  
GGAGGGCGGGGCGTGGGGCGGACGGAACCACGGGGCGGGGTGGGAGGTAACGGGACGGGCGCGACCATGGCGCG  
GTGAGGGAGCGGGGCTGGGGATCGGTCCGGGGAGGCGCTGAGGCGGCTGGCTTGTGCGCTGTCTCCGCCGCCCCC  
CTCTTTTCGCCGCCGCCGCCGCCGCCCGGGCATGTCGTCCAACCTGCACCAGCACCACGGCGGTGGCGGTGGCGCC  
GCTCAGCGCCAGCAAGACCAAGACCAAGAAGAAGCATTTCGTGTGCCAGAAAGTGAAGCTATTCCGGGCCAGCGA  
GCCGATCCTCAGCGTCTGATGTGGGGGTGAACCACACGATCAATGAGCTGAGCAATGTTCTGTTCCTGTTCAT  
GCTAATGCCAGATGACTTCAAAGCCTACAGCAAGATCAAGGTGGACAATCATCTCTTCAATAAGGAGAACCTGCC  
CAGCCGCTTTAAGTTAAGGAGTATTGCCCATGGTGTTCGAAACCTTCGGGAGAGGTTTGAATTGATGATCA  
GGATTACCAGAATTCAGTGACGCGCAGCGCCCCCATCAACAGTGACAGCCAGGGTCGGTGTGGCACGCGTTTCCT  
CACCACCTACGACCGGCGCTTTGTCTCAAGACTGTGTCCAGCGAGGACGTGGCGGAGATGCACAACATCTTAAA  
GAAATACCACAGTTTATAGTGGAGTGTCTATGGCAACACGCTTTTGCCACAGTTCCTGGGCATGTACCGCTGAC  
CGTGGATGGTGTGGAAACCTACATGGTGGTTACCAGGAACGTGTTTCAGCCATCGGCTCACTGTGCATCGCAAGTA  
TGACCTCAAGGGTTCTACGGTTGCCAGAGAAGCGAGCGACAAGGAGAAGGCCAAGGACTTGCCAACATTCAAAGA  
CAATGACTTCCTCAATGAAGGGCAGAAGCTGCATGTGGGAGAGGAGAGTAAAAAGAACTTCCTGGAGAACTGAA  
GCGGGACGTTGAGTTCTTGGCACAGCTGAAGATCATGGACTACAGCCTGCTGGTGGGCATCCACGACGTGGACCG  
GGCAGAGCAGGAGGAGATGGAGGTGGAGGAGCGGGCAGAGGACGAGGAGTGTGAGAATGATGGGGTGGGTGGCAA  
CCTACTCTGCTCCTATGGCACACCTCCGGACAGCCCTGGCAACCTCCTCAGCTTTCTCGGTTCTTTGGTCTCTGG  
GGAATTCGACCCCTCTGTTGACGTCCTATGCCATGAAAAGCCATGAAAGTTCCCCAAGAAGGAGGTGTATTTTCAT  
GGCCATCATTGATATCCTCAGCCATACGATACAAAGAAGAAAGCTGCACATGCTGCCAAAACGGTGAACACGG  
GGCAGGGGCGGAGATCTCGACTGTGAACCTGAGCAGTACTCAAACGCTTCAACGAGTTTATGTCCAACATCCT  
GACGTAGTTCTCTTCTACCTTCAGCCAGAGCCAGAGAGCTGGATATGGGGTCGGGGATCGGGAGTTAGGGAGAAG  
GGTGTATTTGGGCTAGATGGGAGGTGGGAGCAGAGTCGGGTTTGGGAGGGCTTTAGCAATGAGACTGCAGCCTG  
TGACACCGAAAGAGACTTTAGCTGAAGAGGAGGGGGATGTGCTGTGTGTGCACCTGCTCAGAGGATGTAACCCCA  
CCTTCTGCTTACCCTTGATTTTTTCTCCCCATTGACACCCAGGTAAAAAGGGGTTCCCTTTTTTGGTACCTTGT  
AACCTTTTAAGATACCTTGGGGCTAGAGATGACTTCGTGGGTTTATTTGGGTTTTGTTTCTGAAATTTTCATTGCT  
CCAGGTTTGCTATTTATAATCATATTTTCATCAGCCTACCCACCCTCCCCATCTTTGCTGAGCTCTCAGTTCCTT  
CAATTAAGAGATAACCGGTAGACCCAGCACAAGGGTCTTCCAGAACCAAGTGCTATGGATGCCAGATTGGAGA  
GGTCAGACACCTCGCCCTGCTGCATTTGCTCTTGTCTGGATTAACCTTTGTAATTTATGGAGTATTGTGCACAACT  
TCCTCCACCTTTCCCTTGGATTCAAGTGAAAACCTGTTGCATTATTCCCTCCATCCTGTCTGGAATACACCAGGTCA  
ACACCAGAGATCTCAGATCAGAATCAGAGATCTCAGAGGGGAATAAGTTTCATCCTCATGGGATGGTGAGGGGCG  
GAAAGCGGCTGGGCTCTTGGACACCTGGTTCTCAGAGAACCCTGTGATGATCACCAAGCCCCAGGCTGTCTTAG  
CCCCGGAGTTCAGAAGTCTCTCTGTAAAGCCTGCCCTCCACTAGGTCAAGAGGAAGTAGAGTACCTTTGGATT  
TATCAGGACCCTCATGTTTAAATGGTTATTTCCCTTTGGGAAAACCTCAGAACTGATGTATCAAATGAGGCCCT  
GTGCCCTCGATCTATTTCTTTCTTCTTCTGACCTCCTCCCAGGCACTCTTACTTCTAGCCGAACCTCTTAGCTCT  
GGGCAGATCTCCAAGCGCCTGGAGTGCTTTTTAGCAGAGACACCTCGTTAAGCTCCGGGATGACCTTGTAGGAGA  
TCTGTCTCCCTGTGCTGGAGAGTTACAGCCAGCAAGGTGCCCCCATCTTAGAGTGTGGTGTCCAAACGTGAGGT  
GGCTTCCTAGTTACATGAGGATGTGATCCAGGAAATCCAGTTTGGAGGCTTGATGTGGGTTTTGACCTGGCCTCA  
GCCTTGGGGCTGTTTTTCTTGTGGCCGCTCTAGACTTTTAGCAGATCTGCAGCCACAGGCTTTTTTGGAAAG  
GAGTGGCTTCCTGCAGGTGTTCCACCTGCCTTCGGAGCCTGCCACCCAGGCCCTCAGAACTGAGCCACAGGCTGC  
TCTGGCCAGGAGAGAAACAGCTCTGTTGTTCTGCATTGGGGGAGGTACATTCTCTGCATCTTCTACCCCCCTCAAC  
CAGGAACCTGGGGATTTGGGATGAGATATGGTCAGACTTGTAGATAACCCCAAAGATGTGAAGATCGCTTGTGAAA  
CCATTTTGAATGAATAGATTGGTTTCTGTGGCTCCCTCCAAACCTGGCCAAGCCCAGCTTCCGAAGCAGGAACC  
AGCACTGTCTCTGTGCCTGACTCACAGCATATAGGTGAGGAAAGAATGGAGACGGCATTCTTGGACTTCACTGGG  
GCTGCTGGATTGGATGGGAAACCTTCTGGAAGAGGCAGATGGGGGTCAAACCACTGCCTTGGCCCCAGGAAGGGG  
CCATAGGTAGGTCTGAACAACCTGCCGAAGACCACTACATGACTTAGGGAACCTTGAAACCAACTGGCTCATGGAG

222/5332  
**FIGURE 200B**

AAAACAAATTTGACTTGGGAAAGGGATTATGTAGGAATAATGTTTGGACTTGATTTCACGTCATAATGAAGA  
ATGGAAGTTTGGATCTGCTCCTCGTCAGGCGCAGCATCTCTGAAGCTTGGAAAGCTGTCTTCCAG

223/5332  
**FIGURE 201**

CCTAGTACACCGCAATCATGTCTATTATGTCCTATAACGGAGGGGCCGTCATGGCCATGAAGGGGAAGAACTGTG  
TGGCCATCGCTGCAGACAGGCGCTTCGGGATCCAGGCCCAGATGGTGACCACGGACTTCCAGAAGATCTTTCCCA  
TGGGTGACCGGCTGTACATCGGTCTGGCCGGGCTCGCCACTGACGTCCAGACAGTTGCCCAGCGCCTCAAGTTCC  
GGCTGAACCTGTATGAGTTGAAGGAAGGTCGGCAGATCAAACCTTATACCCTCATGAGCATGGTGCCCAACCTCT  
TGTATGAGAAACGGTTTGGCCCTTACTACACTGAGCCAGTCATTGCCGGGTGGACCCGAAGACCTTTAAGCCCT  
TCATTTGCTCTCTAGACCTCATCGGCTGCCCCATGGTGACTGATGACTTTGTGGTCAGTGGCACCTGCGCCGAAC  
AAATGTACGGAATGTGTGAGTCCCTCTGGGAGCCCAACATGGATCCGGATCACCTGTTTGAAACCATCTCCCAAG  
CCATGCTGAATGCTGTGGACCGGGATGCAGTGTGAGGCATGGGAGTCATTGTCCACATCATCGAGAAGGACAAAA  
TCACCACCAGGACACTGAAGGCCCGAATGGACTAACCCTGTTCCAGAGCCCACTTTTTTTTCTTTTTTTGAAAT  
AAAATAGCCTGTCTTTC

224/5332  
**FIGURE 202**

GAGAGCCCGAACAGGAAGAGGGTACAGCTTTGTGCAGGTACATGCCCCACTGCAGCCCTCCAGCCTCTGGTCCCC  
AGAGCGGACTTTGGAAGCTGAACCTGCTTTTGTGCTGGAAGACTTATGTTATAATTTACCCTGGGTGGACCAGGG  
TCGTACAAAAGGGCAACGCTCCCCAGTCCCCCACCCCCGACCCCGGAATCATGCATCGGACTACACGGATCAAA  
ATCACAGAGCTGAACCCCCACCTCATGTGTGCCCTCTGCGGGGGGTACTTCATCGACGCCACCACTATCGTGGAG  
TGCCTGCATTCCCTTCTGCAAAACCTGCATCGTGCCTACCTGGAGACCAACAAATACTGCCCCATGTGTGACGTG  
CAGGTCCATAAAAACCCGCGCGCTGCTGAGCATCAGGTCTGACAAAACACTTCAAGACATTGTCTACAAATTGGTC  
CCTGGGCTTTTTAAAGATGAGATGAAACGGCGGGGATTTCTATGCAGCGTACCCCTGACGGAGGTCCCCAAC  
GGCTCCAATGAGGACCGCGCGAGGTCTTGGAGCAGGAGAAGGGGGCTCTGAGTGATGATGAGATTGTCAGCCTC  
TCCATCGAATTCTACGAAGGTGCCAGGGACCGGGACGAGAAGAAGGGCCCCCTGGAGAATGGGGATGGGGACAAA  
GAGAAAACAGGGGTGCGCTTCCTGCGATGCCAGCAGCCATGACCGTCATGCATCTTGCCAAGTTTCTCCGCAAC  
AAGATGGATGTGCCAGCAAGTACAAGGTGGAGGTTCTGTACGAGGACGAGCCACTGAAGGAATACTACACCTC  
ATGGACATCGCCTACATCTACCCCTGGCGGCGGAACGGGCCTCTCCCCCTCAAGTACCGTGTCCAGCCAGCCTGC  
AAGCGGCTCACCTAGCCACGGTGCCACCCCTCCGAGGGCACCAACACCAGCGGGGCGTCCGAGTGTGAGTCA  
GTCAGCGACAAGGCTCCAGCCCTGCCACCCCTGCCAGCCACCTCCTCCTCCCTGCCAGCCAGCCACCCCATCC  
CATGGCTCTCCAGTTCCCATGGGCCTCCAGCCACCCACCCCTACCTCCCCCACTCCCCCTTCGACAGCCAGTGGG  
GCCACCACAGCTGCCAACGGGGGTAGCTTGAACCTGCCTGCAGACACCATCCTCCACCAGCAGGGGGCGCAAGATG  
ACTGTCAACGGCGCTCCCGTGCCCCCTTAACTTGAGGCCAGGGACCCCTCTCCCTTCTTCCAGCCAAGCCTCTCC  
ACTCCTTCCACTTTTTCTGGGCCCTTTTTTCCACCTCTTCTACTTTCCCCAGCTCTTCCACCTTGGGGGTGGGG  
GGCGGGTTTTATAAATAAATATATATATATATGTACATAGGAAAAACCAATATACATACTTATTTTCTATGGAC  
CAACCAGATTAATTTAAATGCCACAGGAAACAACTTTATGTGTGTGTGTATGTGTGGAATGGTGTTCATTTT  
TTTTGGGGGGGGTCTTGTGTAATTTGCTGTTTTTGGGGGTGCCTGGAGATGAACTGGATGGGCCACTGGAGTCTC  
AATAAAGCTCTGCACCATCCTCGCTGTTTCCCAAGGCAGGTGGTGTGTGTTGGGGGCCCTTCAGACCCAAAGCTTT  
AGGCATGATTCCAACCTGGCTGCATATAGGAGTCAGTTAGAATCGTTTCTTCTCTCCCGTTTCTCTCCCCATCT  
TGGCTGCTGTCTGCTGCTGACCAAGTGGCGCCCCCACGTTGTTGAATGTCCAGAAATTGCTAAGAACAGTGCC  
TTTTACAAATGCAGTTTATCCCTGTTCTGAGGAGCAAGTGCAGGGTGGAGGTGGCACCTGCATCACCTCCTCCT  
CTTGCAAGTGGAACTTTGTGCAAAGAATAGATAGTTCTGCCTCTTTTTTTTTTTTCTGTGTGTGTGGCCTTTG  
CATCATTTATCTTGTGAAAAGAAGATTGAGGCCCTGAGAGGTCTCAGCTCTTGGAGGAGGGCTAAGGCTTTAGC  
ATTGTGAAGCGCTGCACCCCAACCAACCTTACCCTACCGGGGAACCTCACTAGCAGGACTGGTGGTGGAGTCT  
CACCTGGGGCTAGAGTGGAAGTGGGGGTGGGTAACTCACACAAGCACAGATCCCAGACTTTGCCAGAGGCAA  
ACAG

225/5332  
**FIGURE 203**

GCGGGCGGGCGGGCGGGAGGCGACCATGCGGGCGGGGGCGATCCTGCGGCCGGCGGCGGTGGTGCCCG  
GGACCTGAACCCGCGGCGGGACATCTCCTCCTGGCTGGCCAGTGGTTCCCTAGAACCCAGCCAGGTCCGTGGT  
GGCCCTGAAGACCCCCATCAAGGTGGAGCTGGTGGCAGGGAACCTACAGGTGGTGTGTGTGTGGCCGCAGCAA  
GAAGCAGCCCTTCTGTGACGGCTCCCACTTCTTCCAACGCACTGGCCTATCTCCACTCAAGTTCAAGGCCAAGA  
GACCCGCATGGTGGCACTCTGTACCTGCAAGGCCACTCAGAGGCCCCCGTACTGCGATGGCACCACAGGAGTGA  
GCGCGTGCAGAAGGCAGAAGTGGGCTCCCCACTCTTGAGGGGGCTGCTGCTGTCCAGCCACAGGTGGCCTTGGCTC  
CAGGCCTCTGACAGGCACCCCTTCTGTGGGAAAGGAAACAGGTGCTGAGCCCAAGAGACTCTGGTACCCACTGC  
TGGCTCATGAAGGAAGAATTATTCCTTATAACCTAAAAGTCTCCAGTCTGGGGCAGGCGGGAGTGGGCCCTGGTT  
CAATGTTTGCTGATGGGGAAGATGGCAAAAACAAGCCTGCCAACCCAGACTGGTAGTCCTGCAGTCACTGCTATG  
AGGCCACGTGCTGCCTCCTGCTCCAGATTTTAACCTCTCTGTGGGCTGGGGGCACCTGACCAGCCACAGGAGAG  
GGCAGTTCAGATTCATTCTGTATGGGGTCCCCAAGCCAGGCTAAACCCAGAGATGAGAGGCACCCTTCCCTTCTT  
CCCTCCACCCCAAAGAACTACAGGCTCCAGAAAGTATGCAGCATTTATTACAAAGCCAAGAGATACAGATGTCCC  
AGGGCAAAGGAGGGTACAGTCACAGGACCTCAGACACAGGACAAGGTGCAAACACAGACAAGCCCATCAGGGGGC  
TCCAACCCACACACCTACGCTATGATGGAATCTCGAGTCTCGACTCCCG

226/5332  
**FIGURE 204**

**ATGAAGGAGATGGTAGGAGGCTGCTGCGTATGTTTCGGACGAGAGGGGCTGGGCCGAGAACCCGCTGGTCTACTGC**  
GATGGGCACGCGTGCAGCGTGGTTCGTCCACCAAGCTTGCTATGGCATCGTTTCAGGTGCCAACGGGACCCTGGTTT  
TGCCGGAAATGTGAATCTCAGGAGCGAGCAGCCAGGGTGAGGTGTGAGCTGTGCCACACAAAGACGGGGCATTG  
AAGAGGACTGATAATGGAGGCTGGGCACACGTGGTGTGTGCCCTCTACATCCCCGAGGTGCAATTTGCCAACGTG  
CTCACCATGGAGCCCATCGTGCTGCAGTACGTGCCTCATGATCGCTTCAACAAGACCTGTTACATCTGCGAGGAG  
CAGGGCCGGGAGAGCAAGGCGGCCTCGGGAGCCTGCATGACCTGTAACCGCCATGGATGTGACAAGCTTTCCAC  
GTCACCTGTGCCCAAATGGCAGGCTTGCTGTGTGAGGAAGAAGTGCTGGAGGTGGACAACGTCAAGTACTGCGGC  
TACTGCAAATACCACTTCAGCAAGATGAAGACATCCCGGCACAGCAGCGGGGGAGGCGGAGGAGGCGCTGGAGGA  
GGAGGTGGCAGCATGGGGGGAGGTGGCAGTGGTTTCATCTCTGGGAGGAGAAGCCGGTCAGCCTCACCATCCACG  
CAGCAGGAGAAGCACCCCAACCCACACGAGAGGGGGCCAGAAGAAGAGTCGAAAGGACAAAGAAGCCTTAAGCAG  
AAGCACAGAAGCGGCCTGAGTCGCCCCCAGCATCCTCACCCGCCCCGTGGTCCCCACTGCTGACAAGGTCTCC  
TCCTCGGCTTCCTCTTCCTCCCAACACGAGGGCCAGCACGCAGGAGACCTCTGAGAGCAGCAGGGAGTCAAAGGGG  
AAAAAGTCTTCCAGCCATAGCCTGAGTCATAAAGGGAAGAACTGAGCAGTGGGAAAGGTGTGAGCAGTTTTACC  
TCCGCCCTCCTCTTCTTCCTCCTCCTCTTCCTCCTCCTCTGGGGGGCCCTTCCAGCCTGCAGTCTCGTCCCTGCAG  
AGCTCCCCTGACTTCTCTGCATTCCCCAAGCTGGAGCAGCCAGAGGAGGACAAGTACTCCAAGCCCACAGCCCCC  
GCCCCCTCAGCCCCCTCCTTCTCCCTCAGCTCCCCGAGCCCCCAAGGCTGACCTTTTTTGAGCAGAAGGTGGTCTTC  
TCTGGCTTTGGGCCCATCATGCGCTTCTCCACCACCACCTCCAGCTCAGGCCGGGCCCCGGGCGCCCTCCCTGGG  
GACTATAAGTCTCCCCACGTACGCGGTCTGGGGCCTCGGCAGGCACCCACAAACGGATGCCCCGCACTGAGTGCC  
ACCCCTGTGCCTGCTGATGAGACCCCTGAGACAGGCCTGAAGGAGAAGAAGCACAAAGCCAGCAAGAGGAGCCGC  
CATGGGCCAGGCCGTCCCAAGGGCAGCCGGAACAAGGAGGGCACTGGGGGGCCAGCTGCCCCATCCTTGCCAGT  
GCCAGCTGGCTGGCTTTTACCGCCACTGCTGCCTCACCTTCTCTGGAGGTTCCCTGGTCAGCTCCGGCCTGGGA  
GGTCTGTCTCTCCGAACCTTTGGGCCTTCTGGGAGCTTGCCAGCTTGAGCCTGGAGTCCCCCTTACTAGGGGCA  
GGCATCTACACCAGTAATAAGGACCCCATCTCCACAGTGGCGGGATGCTGCGGGCTGTCTGCAGCACCCCTCTC  
TCCTCCAGCCTCCTGGGGCCCCCAGGGACCTCGGCCCTGCCCCGCTCAGCCGCTCCCCGTTACCAGCACCCCTC  
CCCTCCTCTTCTGCTTCTATCTCCACCACTCAGGTGTTTTCTCTGGCTGGCTCTACCTTTAGCCTCCCTTCTACC  
CACATCTTTGGAACCCCATGGGTGCCGTTAATCCCCCTCCTCTCCCAAGCTGAGAGCAGCCACACAGAGCCAGAC  
CTGGAGGACTGCAGCTTCCGGTGTGCGGGGACCTCCCTCAGGAGAGTCTGTCTTCCATGTCCCCATCAGCAGC  
CTCCCCGCACTCTTCGACCAGACAGCCTCTGCACCCTGTGGGGGCGGCCAGTTAGACCCGGCGGGCCCCAGGGACG  
ACTAACATGGAGCAGCTTCTGGAGAAGCAGGGCGACGGGGAGGCGGCGTCAACATCGTGGAGATGCTGAAGGCG  
CTGCACGCGCTGCAGAAGGAGAACCAGCGGCTGCAAGAGCAGATCCTGAGCCTGACGGCCAAAAGGAGCGGCTG  
CAGATTCTCAACGTGCAGCTCTCTGTGCCCTTCCTGCCCCTGCCTGTGCCCTGCCTGCCGCAACGGCCCTGTC  
CCTGGGCCCTATGGCCTGCCTCCCCAAGCCGGCAGCAGCGACTCCTTGAGCACCAGCAAGAGCCCTCCGGGAAAG  
AGCAGCCTCGGCCTGGACAACCTCGCTGTCACTTCTTCTGAGGACCCACACTCAGGCTGCCCGAGCCGCAGCAGC  
TCGTGCTGTCTTCCACAGCACGCCCCCACCCTGCCCCCTCCTCCAGCAGAGCCCTGCCACTCTGCCCTGGCC  
CTGCCTGGGGCCCCCTGCCCCACTCCCGCCCCAGCCGCAGAACGGGTTGGGGCCGGGCACCCGGGGCAGCGGGGCTG  
GGGGCCATGCCCATGGCTGAGGGGCTGTTGGGGGGGCTGGCAGGCAGTGGGGGCTGCCCTCAATGGGCTCCTT  
GGGGGGTTGAATGGGGCCGCTGCCCCCAACCCCGCAAGCTTGAGCCAGGCTGGCGGGGCCCCACGCTGCAGCTG  
CCAGGCTGTCTCAACAGCCTTACAGAGCAGCAGAGACATCTCCTTCAGCAGCAAGAGCAGCAGCTCCAGCAACTC  
CAGCAGCTCCTGGCCTCCCCGAGCTGACCCCGGAACACCAGACTGTTGTCTACCAGATGATCCAGCAGATCCAG  
CAGAAAACGGGAGCTGCAGCGCCTGCAGATGGCTGGGGGCTCCAGCTGCCATGGCCAGCCTGCTGGCAGGAAGC  
TCCACCCCGCTGCTGTCTGCGGGTACCCCTGGCCTGCTGCCACAGCGTCTGCTCCACCCCTGCTGCCCGCTGGA  
GCCCTAGTGGCTCCCTCGCTTGGAACAACAAGTCTCATGGCCGAGCAGCTGCAGCTGCAGCAGTAGCAGCA  
GCAGGCGGACCTCCAGTCTCTACTGCCAGACCAACCCCTTCTCAGCCTGTGCGGAGCAGAGGGCAGTGGCGGT  
GGCCCCAAAGGAGGGACCGCTGACAAAGGAGCCTCAGCCAACAGGAAAAAGGCT**TAA**



227/5332  
**FIGURE 205A**

GGCGCCGGCGGCCTCTACAAGCGCGGCTCGGTGCGCTCGCTCAGCACCTACTCGGCCGCCGCGCTGCAGTCCGAT  
CTGGAGGACTCCCTGTACAAGGCGGCGGGCGGCGGCCGCTGTACGGCGACGGCTACGGCTTCCGCCTGCCG  
CCTTCGTACCCGAGAAGCTGGCCGACGTGGCAGCACCCCCCGAGGTCCCCGCCACCGCACAGCCCCCTACTCG  
GGGCCGCCAGCCGCGGCTCGCCAGTGCAGCAGTCCCTCCGCAAGGACTCGGGCTCCTCGTCCGTCTTTGCCGAG  
AGTCTTGAGGGAAGACCCGACGCGCGGGAGCGCCTCGACGGCCGGAGTCCCCCTTCGGAGCTCTTCCCTGGG  
CCTGGGGAACGCTCGCTGGTTGGGTTCTGGGCCGCGCAGTGCCAGCCAAGGACACGGAGACCAGGGAGCGCATGGAG  
GCCATGGAGAAGCAGATTGCCAGCCTCACAGGCCTGGTGCAGAGCGCCTTACTGCGAGGCTCTGAGCCTGAGACC  
CCCAGCGAGAAGATTGAAGGCTCCAATGGAGCAGCACCCCCCTCAGCACCTGTGGGTGAGGCGGCCGGAGCAGC  
GGGGCCACCCCGGTGTCCGGCCCCGCCCCGCCCCCTCGGCCAGCAGCACCCCCCGAGGTGAGCCTACCGCCGTTAGC  
CGGCTGCAGATGCAGCTTCACTGCGAGGCCTGCAGAACAGCGCCAGTGACTTGCAGCGGCCAGCTCCAGCAGTTG  
CGCAAGCTCCAGCTACAGAACCAGGAGTCGGTGCAGCGCGCTGTGAAGCGCACGGAGGCAGAGCTGAGCATGCGC  
GTGTCCGAGGCGGCGCGGCGGCGGAGGAGGCCGCTGCAGCGGCAGCGCACCCCTGGTGGAAGAGGAACGGCTGCGC  
TATCTCAACGACGAGGAGCTTATTACCCAGCAGCTCAATGACCTGGAGAAATCGGTGGAGAAGATCCAGAGAGAC  
GTGTCCACAAACCACCGCTGGTGGCCGGCCCTGAGCTGGAGGAGAAGGCACTGGTGTGAAGCAGCTCGGGGAG  
ACGCTGACAGAGCTCAAGGCTCACTTCCCGGCCCTGCAGAGCAAGATGCGGGTGGTGTGCGCGTGGAGGTGGAG  
GCGGTGAAGTTCTGAAGGAGGAGCCCCAGCGCCTGGATGGGCTCCTCAAGCGCTGCCGCGGGGTACGGACACG  
CTGGCCCAGATCCGAAGGCAAGTGATGAGGGTGTGTGGCCACCCCCCAACAATCTCCTGAGTCAGTCCCCAAG  
AAGGTGACGGCAGAGACTGACTTCAACAAGAGCGTGGACTTCGAAATGCCACCCCCCAGCCCCCGCTGAACCTG  
CATGAGCTGAGCGGGCCAGCTGAAGGAGCCTCTCTTACCCCCAAGGGGGGCAACCCACCAAGGCCTGGACACT  
CCTGGCAAGAGAAGCGTGAGCAAAAGCTGTGTCTGTTGAGGCTGCAGAGCGAGACTGGGAGGAGAAGCGGGCAGCC  
CTGACCCAGTACAGTGCCAAGGACATCAACCGGCTGCTGGAAGAGACACAGGCAGAGCTGCTCAAGGCCATCCCT  
GACCTGGACTGTGCCAGCAAGGCCCATCCAGGCCCGGCCCCCTCCAGATCACAAGCCCCCAAGGCCCCCCAC  
GGCCAGAAGGCAGCCCCCGAACGGAGCCAGTGGGAGGAGGGGCTCAGATGAGTTGACCGTGCCCCGATACCGC  
ACAGAGAAGCCCTCCAAGTCGCCCCCACC GCCCCTCCCGCGGAGCTTCCCTCCTCCCATGGCCTGACCACC  
ACACGTACCGGAGAGGTGGTGGTCAACAGCAAGAAGGACTCGGCCTTCATCAAGAAGGCTGAGTCCGAGGAGCTG  
GAGGTGCAGAAGCCCCAGGTGAAGCTGCGCCGGGCTGTGTCTGAGGTGGCCCGCCAGCCTCCACACCACCCATC  
ATGGCCTCGGCCATCAAGGACGAGGATGACGAGGATCGCATCATCGCAGAGCTAGAGAGTGGCGGAGGCAGTGTA  
CCACCCATGAAGGTGGTGAAGTCCGGGGGCTCTCGGCTGAAGGCGGCCAGGGCCAGGCGGGCAGCCCCGACAAA  
AGCAAACATGGCAAGCAGAGGGCCGAGTACATGCGGATCCAGGCCAGCAGCAGGCCACTAAACCATCTAAAGAG  
ATGAGCGGGTCAATGAGACCTCGAGCCCAGTCTCAGAAAAGCCCTCGGCTTCCAGAACCTCTATCCCTGTATTG  
ACTTCCTTTGGGGCAAGGAATTCTTCCATCTCCTTCTAGAGCCCTCACC CGCTGCCCCGCTGTCCCCCTCC  
CTCACTCCTGCCATTTCTCCCCTCTCTTCTTCTCATCTCCACCCACCCACCCTACTCTCCAGACGCCCTGAGGG  
GTGTGCCCTGAAGAGGAGGGTGCAGGCCCTCTCAGCGACCCCTACCCATCATCTGTTGGTGTGTTTGGTTTTGTT  
TTTTTTTTTTTTTAACAATTAACTTTTTAATTATCTTTTTTTAAACAGTAAACTAAAAACCAACACACCCT  
TCCTTGATCCAGCTGGCCTCTCGCTGGCCGCACCTGTACATCTCTCCTTCTTCTCTTCTCCTTCTTCCCC  
CAGTCCATCCTGAAGCTCCTGCACCCCTTCCCGCCTTCCCTCACTTCCCAAGAATACTCCAAACAACTCTGA  
ACCACGGAGACTTGGAGCAGTGGGAGACCCCTCTCCCGTTTCTCGATACCTTCTTGAGGAACGCGGGGACATCG  
GACCAACCCATACATCAAGCCAGAGAGCGGGCTTAGGGAGACTGGCCTTGAGATGCCCCACTCCCTGTCTAAG  
CTCCGACAAGACTGTGACTTCTCTGTGGCTGCTCTGCCTCCTCCCACTCACACCCAAGTGGGCCTGGAGTAGAG  
ACGGACAGGCTGGAGACGAGGCCGAGTTTGAGAGGCCTCAGGGTGGGTGTGAGGCCATGGAGTCTGTATCCCTG  
GGGAGGCGCTGGCCTCCTGGGCCCTTGGCGTCCAGTGGGGAGTGGAGGGCAGAGGCCCTTTGGTCTGCTGGCTGTG  
GAGGGTGGGTTCACGGACAGCCGATATCGGGGACACTGCCTTGGGAGAGGGCGGCCCGGACGGGTATTTGGTA  
CTTTTAGTTTTCTGATTAGCACTTTAAATGGCATTAACTTATTGAATGGGGATGGGGTGGGCAAGAGTGAGGGG  
CCTAGAAAACCAGGTTTTGTGGCTTGCAAGTTGGGGGAAGGGTCTGGTTTGAGGGAAATGGGAGGGTTCGAGAGGGG  
CTTGACGGGGAGCACTGAAGACACCTGGGACCCGACAGGTGGGGTGAAGTGAAGTTCAGTCATCTCTTGGCAATT  
TGAGGGTTTTCCAGGAAAGGATGAGACGTAGTTTTTCAATGGGGCTCTGGTGACCCCTGGTGAGATGTCTGAAGG  
TCCCTGAGGCCTGACCATCCAGCCAGCGCCCCTGGCCTGTGGACGCCCTGCCTGCCCTGCAGAGGCGGTTGGCAG  
TGCCGCTGGCTTTTGGCCGGGTCTGGGGAGGCAGAGAGAGGCCAATTTTGGTTCTCACTCCTGGCCCCCAGA

228/5332  
**FIGURE 205B**

GGGCACAGTGAGGAGCCGGTAGGGAGAGGATAGGAGAAGAGGAGGAGGAGGAGCGGGGTCCCCGGCCGCAGGATT  
CCCCTTGGAGCACAAAGTGAAGTAAGCACAGGGGAGGGGGACTAGAATCAGTCCCCCATAGCAAGCACAGAAAAG  
GAGGAGCTGCGCAGAAGGCAGAGCCCCCAGACCCTGGGGCCTGGCTGGGGAAGGTCCGCACCTGGGGAGAGCTG  
GGAGCTGTTGAAGGTTTGGGGGGAGGGGAAACGGGTTGTGTTTCTTCATTTCTTTTTTTGTTTTTGCCTTTGTTG  
GTTTCATCCTTGTTTTCTAGCTTTGGATCATTTTTGTACCAAGGCGAGCAAGCCTTTTTGAAAAATAACAAAAGAG  
GAAAAAAAAAATCCCTCCTGG

229/5332  
**FIGURE 206**

GTGGAATGTCATCAGTTAAGGCTATTTTCATTTCTTTTGTGGATCTTCAGTTGCTTCAGGCCATCTGGATGTATA  
CATGCAGGTCACAGGGAATATGATGGCTTAGCTTGGGTTTACAGAGGCCTGACACCTCAGGCTGCCAAATGTGGAAG  
ATTTAAATACTTGAACCAATACCCTCCTCCCAAAACTGAAATTGGCTTCTGTTTCTGAGTTGGTCCAGGCGCAA  
TGTTCAGCGTATTTGAGGAAATCACAAGAATTGTAGTTAAGGAGATGGATGCTGGAGGGGATATGATTGCCGTTA  
GAAGCCTTGTGATGCTGATAGATTCCGCTGCTTCCATCTGGTGGGGGAGAAGAGAAGTTCTTTGGATGCCGGC  
ACTACACAACAGGCCTCACCCCTGATGGACATTCTGGACACAGATGGGGACAAGTGGTTAGATGAAGTGGATTCTG  
GGCTCCAAGGTCAAAAGGCTGAGTTTCAAATTCTGGATAATGTAGACTCAACGGGAGAGTTGATAGTGAGATTAC  
CCAAAGAAATAACAATTTACAGGCAGTTTCCAGGGCTTCCACCATCAGAAAATCAAGATATCGGAGAACCGGATAT  
CCCAGCAGTATCTGGCTACCCTTGAAAACAGGAAGCTGAAGAGGGAAGTACCCTTTTCATTCCGATCAATTAATA  
CGAGAGAAAACCTGTATCTGGTGACAGAACTCTGGAGACGGTAAAGGAGGAAACCCTGAAAAGCGACCGGCAAT  
ATAAATTTTGGAGCCAGATCTCTCAGGGCCATCTCAGCTATAAACACAAGGGCCAAAGGGAAGTGACCATCCCC  
CAAATCGGGTCTTGAGCTATCGAGTAAAGCAGCTTGTCTTCCCCAACAAAGGAGACGATGAGAAAGTCTTTGGGTT  
CGGAGGATTCCAGAAACATGAAGGAGAAGTTGGAGGACATGGAGAGTGTCTCAAGGACCTGACAGAGGAGAAGA  
GAAAAGATGTGCTAAACTCCCTCGCTAAGTGCCTCGGCAAGGAGGATATTCGGCAGGATCTAGAGCAAAGAGTAT  
CTGAGGTCTGATTTCCGGGGAGCTACACATGGAGGACCCAGACAAGCCTCTCCTAAGCAGCCTTTTTAATGCTG  
CTGGGGTCTTGGTAGAAGCGCGTGCAAAAGCCATTCTGGACTTCTGGATGCCCTGCTAGAGCTGTCTGAAGAGC  
AGCAGTTTGTGGCTGAGGCCCTGGAGAAGGGGACCCTTCTCTGTTGAAGGACCAGGTGAAATCTGTCTGAGAGC  
AGAACTGGGATGAGCTGGCCAGCAGTCCTCCTGACATGGACTATGACCCTGAGGCACGAATTCTCTGTGCGCTGT  
ATGTTGTTGTCTCTATCCTGCTGGAGCTGGCTGAGGGGCTACCTCTGTCTCTTCCTAACTACAAAAGCCCTTTC  
TCCCCACAAGCCTCTGGGTTTTCCCTTTACCAGTCTGTCTCACTGCCATCGCCACTACCATCCTGTCAACAGTG  
GGACCTCTTTAAACAAGCAGCCAACCATTCCTTGATGTATCCCATTCGCTCCATGTTAACATCCAAAACCAGCC  
TGGATTCATACATGGACTTCTGATTAAAAGTGGCAGGTTGTGCATGTT

230/5332  
**FIGURE 207**

TGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGAGGGAGGGGTAGGGACAGAAGCTAGACCCAATCTCCTTTG  
GGATGTGGGCAGGGAGGGAAGCAGGCTTGGAGGGTTAATTTACCCACAGAATGTGATAGTAATAGGGGAGGGAGG  
CTGCTGTGGGTTTAACTCCTGGGTTGGCTGTTGGGTAGACAGGTGGGGAAAAGGCCCGTGAGTCATTGTAAGCAC  
AGGTCCAACCTTGGCCCTGACTCCTGCGGGGGTATGGGGAAGCTGTGACAGAAACGATGGGTGCTGTGGTCCTCTG  
CAGGCCCTCACCCCTTAACTTCCTCATACTGGCACTGGGCAGGGCCTCTCATGTGGCAGCCACATGTGGCG  
TTGTGAGGCCACCCCATGTGGGGTCTGTGGTGAGAGTCCTGTAGGATCCCTGCTCAAGCAGCACAGAGGAAGGGG  
CAAGACGTGGCCTGTAGGCACTGTCTCAGCCTGCAGAGAAGAAAGTGAGGCCGGGAGCCTGAGCCTGGGCTGGAG  
CCTTCTCCCTCCCTCAGTTGGACTAGGGGCAGTGTTAATTTGAAAAGGTGTGGGTCCCTGTGTCTCTTCCAGG  
GGTCCAAGGGAACGGGAGAGGTCAGTGGGCCTGTTTTCTCCCTCCTGACCCTGCATCTCCCACCCGTGTATCAT  
AGGGAACTTTACCTTAAAATCTTTCTAAGCAAAGTGTGAATAGGATTTTACTCCCTTTGTACAGTATTCTGAG  
AAACGCAAATAAAAGGGCAACATGTTTCTGTT

231/5332  
**FIGURE 208**

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCGCTCCCGGGAACCGTT  
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC  
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC  
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCTCACCAACCTCATTACACAACATG  
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA  
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTTACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG  
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC  
GTGCTTATCCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTGGAAATCAATAAGTACTGAGAGTGCAGCCCC  
TTCCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG  
CCTCTGGACACTGCCAGAGATGGGGGTGAGCCTCTGGCCTAATTTCCCCCTCGCTTCCCCCAGTAGCCAACTT  
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT  
GCTTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT  
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCCTCAGGCAGCCAAAGCACTTTAACCCCTGCA  
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTTCCTAGGTTTTTTCGATGCCACGCAGTGTG  
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA  
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCTGGTTGGGAGTGGGGAGGGTCAGGTTGGGGAAAGATGG  
GGTAGAGTGTAGATGGCTTGGTTCNCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG  
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAAGGA

232/5332  
**FIGURE 209**

CCCAACCTCCACCAGGCCAGGATGGCAGCAGCCCTGGCCCCCTCACCTCTGNGAACCAAGCCATCTACACTCTAC  
CCCATCTTTCCCCAACCTGACCCTCCCCACTCCCAACCAGGACCCACGGTGGGTTGCAGAGAAGCTGCCAAAAGC  
CTGGGACTTGGATTAGACAGCTCCCTACCCAGAAAGGCAAAGACCCATCCCACACTTGCTTCCATACACAAAAGC  
ACACACTGCGTGGCATCGAAAAAACCTAGGAATCACAGTGAAACAATCCAGAAGCCGTACCGCCCTCTGCTCCCT  
ATGCAGGGGTTAAAGTGCTTTGGCTGCCTGAGGGCAAACAAGTGAGCAGGGGTTTTTCCCCTGGCCTCCTGTGCGC  
AACTGCGTGGTCCATGTTTCAGCCCAGGAGCCCAGCCCATTCCATGACC

233/5332  
**FIGURE 210**

GGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTGTGCAGGCCCGGCTCGGCTCCTGGT  
CCCCGGTGCGAGGGTTAACGCGAGGCCCGGCCTCGGTCCCCGGACTAGGCCGTGACCCCGGGTGCCATGAAGCA  
GGAGGGCTCGGCGCGGCCGCGCGGACAAGGCGAAACCGCCGCCCGGCGGAGGAGAACAAGAACCCCCACC  
GCCGCCGGCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCGACGGGGGAGGCAGACGG  
CAAGACGGCGGCGGCAGCGGCTGAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGAGGACATCAAGGAGCA  
CGTGAAACAGCTAGAGAAAACGGTTTCAGGCAAGGAGCCGAGATTCTGTGCTGCGGGCCCTGCGGATGCTGCCTTC  
CACATCACGCCGCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTCAAATAATGCCACTCG  
AGACTTTTTTGCTCCCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTACAGTTCCGTCGCCGCACGGGAAA  
AGCTGCGTCGACACCCCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACCTCCTCGTGGTCATCTTCATGATGAACAG  
CAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCAGAACCGCCGGGCCCT  
AGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCTTGGACAAGCTGGATGTGGTGCG  
CAGCTTCTTGTCATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGCCACCCTGTTGAACCT  
CCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAAGTCTGTGTTCCAGA  
GCAGGCCAACAAACATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCATCCAGCTGGAGTACTC  
AGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTCGGCTTCAAACAGACGGT  
GCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTTCCGCCAGCCCTCCCT  
CAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTGAGGACAGGAAACCTAGCCAAGTTCAACCAGGT  
CCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCTGCGGCACAACGTGAT  
TAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGCCAGAAAGCTGCAGTT  
GGATAGCCCCGAAGATGCAGAGTTTATTGTTGCCAAGGCCATCCGGGATGGTGTGATTGAGGCCAGCATCAACCA  
CGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCAGCTAGCCTTCCACCA  
GCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCCCAAATCGTACAACAA  
GGACTTGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGAGGTTTGCCAAGGAGATGGCAGAAGA  
TGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAGGCTCTTTCCCCCTTG  
GGGGTCCCCTGCCAGGGCACTGTCCCCATTTTCCCACACACAGCTCATATGCTGCATTCTGTGAGGGGGTGGGG  
GTGCTGGGAGCCAGCCACCCTGACCTCCCCCAGGGCTCCTCCCAGCCGGTGACTTACTGTACAGCAGGCAGGAG  
GGTGGGCAGGCAACCTCCCNCCNNGGCAGGGTCTGGCCAGCAGTGTGGGAGCAGGAGGGGAAGGATAGTTCTGT  
GTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCTTCGATTATGATT  
TTTAAACAATAAAAAGTTCTCC

234/5332  
**FIGURE 211**

CCAAACCGGCCTCCGTCCGGGCCCTGCTGTTTGACATCTCCTTCCTCATGCTGTGCCATGTGGCCCAGACCTATG  
GTTTACAGAGGTGATTCTGTCCGAGTCGCGCACAGGAGCTGAGGTGCCCTTCTTCGAGACCTGGATGCAGACCTGCA  
TGCTTGAGGAGGGCAAGATCCTGAACCCTGACCACCCCTGCTTCCGCCCCGACTCCACCAAAGTGGAGTCCCTGG  
TGGCCCTGCTCAACAACTCCTCGGAGATGAAGCTAGTGCAGATGAAGTGGCATGAGGCCTGTCTCAGCATCTCAG  
CCGCCATCTTGAAAATCCTCAATGCCTGGGAGAATGGGGTCTGGCCTTCGAGTCCATCCAGAAAATCACTGATA  
ACATCAAAGGGNAAGGTATGCAGTCTGGCGGTGTGTGCTGTGGCTTNGGCTTGTGGCCACGTCCGGATGCTGGG  
GCTGGATGAGCGTGAGAAGTCGCTGCAGATGATCCGCCAGCTGGCAGGGCCNACTGTTTAGTGAGAACACCCCTGC  
AGTTCTACAATGAGAGGGTGGTGATCATGAAGTTCGATCCTGGAGCGCATGTGTGCCGACGTGCTGCAGCAGACAG  
CCACGCAGATCAAGTTTCCCTCCACCGGGTGGACACAATGCCCTACTGGAACCTGCTGCCCCCAAGCGGCCCA  
TCAAAGAGGTGCTGACGGACATTTTTGCCAAGGTGCTGGAGAAGGGCTGGGTGGACAGCCGCTCCATCCACATCT  
TTGACACCCCTGCTGCACATGGGCGGCGTCTACTGGTTCTGCAACAACCTGATTAAGGAGCTGCTGAAGGAGACGC  
GGAAGGAGCACACGCTGCGGGCAGTGGAGCTGCTCTACTCCATCTTCTGCCTGGACATGCAGCAAGTGACCCTGG  
TCCTGCTGGGCCACATCCTACCTGGCCTGCTCACTGACTCCTCCAAGTGGCACAGCCTCATGGACCCCCCGGGCA  
CTGCTCTTGCCAAGCTGGCCGTGTGGTGTGCCCTCAGTTCTTACTCCTCCCACAAGGGACAGGCGTCCACCCGCC  
AGAAGAAGAGACACCGCGAAGACATTGAGGATTATATCAGCCTCTTCCCCCTGGACGATGTGCAGCCTTCGAAGT  
TGATGCGACTGCTGAGCTCTAATGAGGACGATGCCAACATCCTTTCGAGCCCCACAGACCGATCCATGAGCAGCT  
CCCTCTCAGCCTCTCAGCTCCACACGGTCAACATGCGGGACCCTCTGAACCGAGTCTGGCCAACCTGTTCTCTGC  
TCATCTCCTCCATCCTGGGGTCTCGCACCGCTGGCCCCACACCCAGTTTCGTGCAGTGGTTCATGGAGGAGTGTG  
TGGACTGCCTGGAGCAGGGTGGCCGTGGCAGCGTCTGCAGTTCATGCCCTTCACCACCGTGTGCGAACTGGTGA  
AGGTGTCAGCCATGTCCAGCCCCAAGGTGGTTCGGCCATCACGGACCTCAGCCTGCCCTGGGCCGCCAGGTGG  
CTGCTAAAGCCATTGCTGCACTCTGAGGGGCTTGGCATGGCCGAGTGGGGGCTGGGGACTGGCGCAGCCCCAGG  
CGCTCCAAGGGAAGCAGTGAGGAAAGATGAGGCATCGTGCCTCACATCCGCTCCACATGGTGAAGAGCCTCTA  
GCGGCTTCCAGTTCCCCGCTCCTGACTCCTGACCTCCAGGATGCTCTCCCGGTTTCTTCTTCAAATTTCTCTC  
CATCTGCTGGCACCTGAGGAGAGTGAGCAGCCTGGACCACAAGCCCAGTGGTCAACCCCTGTGTGCGCCCGCCCCA  
GCCCAGGAGTAGTCTTACCTCTGAGGAACTTTCTAGATGCAAAGTGTGTATGTGTGTGTGTGTGTGTGTGTGT  
GTGTTTGTGTGTATTTTGTAATATGTGAGGGAAATCTACCTTCGTTTATGTATAAATAAAGCTCCTCGTGGCTCC  
CTT



AGGAAGCCAGTCACCTTCTGGGCAAGGGCTCCTATCTTTCTCCCTATCCATGGCACTAAACCACTTCTCTGCTG

236/5332  
**FIGURE 212B**

CCTCTGTGGAAGAGATTCCTATTACTGCAGTACATACGTCTGCCAGGGGTAACTGGCCACTGTCCCTGTCCTTC  
TACAGAACCTGAGGGCAAAGATGGTGGCTGTGTCTCTCCCGGTAATGTCACGTGTTTTTATTCCTTCCATCTAGC  
AGCTGGCCTAATCACTCTGAGTCACAGGTGTGGGATGGAGAGTGGGGAGAGGCACTTAATCTGTAACCCCAAGG  
AGGAAATAACTAAGAGATTCTTCTAGGGGTAGCTGGTGGTTGTGCCTTTTGTAGGCTGTTCCCTTTGCCTTAAAC  
CTGAAGATGTCTCCTCAAGCCTGTGGGCAGCATGCCAGATTCCCAGACCTTAAGACACTGTGAGAGTTGTCTCT  
GTTGGTCCACTGTGTTTAGTTGCAAGGATTTTTCCATGTGTGGTGGTGTGTTTTTGTACTGTTTTAAAGGGTGCC  
CATTTGTGATCAGCATTGTGACTTGGAGATAATAAAATTTAGACTATAAACTTG

237/5332  
**FIGURE 213**

ATGAGATCCGCGGTGTTCAAGGCGGCCGCGGCCCTGCCGGCGGCAATCCTGAGCAGCGACTGGA CTACGAGCGG  
GCTGCCGGCGCTGGGCGGGCCCGAGGACGAGCCTGGGGCGGCCGAAGCCCACTTCCTCCCCCGGCACCGTAAGCTC  
AAGGAGCCGGGGCCCCCGCTGGCCTCCTCCCAGGGCGGGAGCCCCGCGCCTTCCCCGGCCGGCTGCGGCGGCAAG  
GGCCGGGGCTTGTTACTCCCGGCCGGGGCGGCCCCCGGGCAGCAGGAAGAGAGCTGGGGCGGTTCCGGTGCCCTTG  
CCCTGTCCGCCCCCGGCCACCAAGCAAGCCGGCATTGGGGGGGAGCCTGCCGCAGCCGGAGCCGGCTGCAGCCCC  
CGGCCCAAGTATCAGGCGGTGCTGCCATTAGACGGGCTCTCTCGTGGCGGCGGCCAAAGAGCCTACGCCCTGG  
GCTGGGGACAAGGGTGGGGCGGCCTCCCCCGCTGCCACCGCCTCGGACCCGGCGGGACCCCCACCACTACCTCTG  
CCCGGGCCGCCACCCCTCGCGCCCACCGCCACCGCCGGGACCTGGCGGCCAGCGAGGGCAGATGGAAGAGTATG  
AGGAAGAGCCCTCTCGGGGGTGGTGGCGGCTCGGGAGCCTCCAGTCAGGCCGCCTGCCTCAAACAGATCCTTCTG  
CTGCAATTGGACCTCATCGAACAGCAGCAGCAGCTGCAGGCCAAGGAAAAGGAGATCGAGGAGCTGAAGTCA  
GAGAGAGACACGCTCCTTGCTCGGATTGAACGTATGGAAAGGCGGATGCAGCTGGTAAAGAAGGATAACGAGAAA  
GAAAGGCACAAGCTGTTTCAGGGCTATGAACTGAAGAGAGAGAGGAAACAGAGCTATCTGAGAAAATTAACTG  
GAGTGCCAGCCGGAGCTTTCGAGACATCCCAGACTCTGCCTCCCAAGCCCTTCTCATGTGGGCGGAGTGGAAG  
GGACATAAAAGGAAATCCCCATTTGGAAGTACAGAAAGAAAGACTCCTGTAAAGCTGGCTCCTGAATTTTCA  
AAAGTCAAAACAAAACCTCCTAAGCACTCTCCTATTAAAGAGGAACCCCTGTGGTTCCTTATCTGAACTGTTTGT  
AAACGTGAATTGAGGAGCCAAGAAACCCAGAAAAGCCCCGGTCTTCAGTGGACACCCACCAAGACTCTCCACT  
CCCCAAAAGGGACCCAGCACCCATCCCAAGGAGAAAGCCTTCTCAAGTGAGATAGAAGATTGCGGTACCTTTCC  
ACCACAGAAATGTATTTGTGTCGTTGGCACCAGCCTCCCCCATCACCGTTACCATTACGGGAATCCTCTCCAAAG  
AAGGAGGAGACTGTAGCAAGTAAGGCATAGAGAACACTTGCTCTTATACCTAGTGGTGGCGGTCAAGCTAACAA  
GTGTGAAAATGCCTTTGGCATTTTTTAAAAAAGTGCAATCAATAAAGCAGAGTTCTGTCAAGAATGAGTAAGTTAA  
CAGCCAGAGACAGACACTGTGCAGGCATTGCAATAGATGGAATTACAGCAAAATGTGCTCAATGTATTTGCCTG  
CTTACAACACTGGGAGATGTGTTTGCCAGTAAGTTGCTCATCACAAGAGCACCACTTGGGGGTGTAATCTCCG  
GCAACTTGATGCCCTCTGAAAGAAGGGTTTTCTGTGCTGTGAAATGCATAGAACTATACTTTGCCATGCACGAC  
TGTTCTGCAATTGATATTGTGTGAAATCT

238/5332  
**FIGURE 214**

CCAGGGACAGCGCCGCTCAGATATCCTGCTGGATGACATTGTCCTTACCCATTCTCTCTTCTCCCGACGGAGA  
AATTTCTGCAGGAGCTACACCAGTACTTTGTTCTGGGCGAGGAGGCATGGAGGGCCCTGAAGGGCTGGGCGGGAAGC  
AAGCCTGTCTAGCCATGCTTCTCCATTTCTTGGACACCTACCAGGGGCTGCTTCAAGAGGAAGAGGGGGCCGGCC  
ACATCATCAAGGATCTATACCTGCTAATTATGAAGGACGAGTCCCTTTACCAGGGCCTCCGAGAGGACACTCTGA  
GGCTGCACCAGCTGGTGGAGACGGTGGAACTAAAGATTCCAGAGGAGAACCAGCCACCCAGCAAGCAGGTGAAGC  
CACTCTTCCGCCACTTCCGCCGGATAGACTCCTGTCTGCAGACCCGGGTGGCCTTCCGGGGCTCTGATGAGATCT  
TCTGCCGTGTATACATGCCTGACCACTCTTATGTGACCATACGCAGCCGCCTTTCAGCATCTGTGCAGGACATTC  
TGGGCTCTGTGACGGAGAACTTCAATATTCAGAGGAGCCCGCGGGGCGTGAGGATTCCCTCATCCTGGTAGCTG  
TGTCCTCCTCTGGAGAGAAGGTCCTTCTCCAGCCCACTGAGGACTGTGTTTTACCGCACTGGGCATCAACAGCC  
ACCTGTTTGCCTGTACTCGGGACAGCTATGAGGCTCTGGTGCCCCCTCCCCGAGGAGATCCAGGTCTCCCCCTGGAG  
ACACAGAGATCCACCGAGTGGAGCCTGAGGACGTTGCCAACCACTAACTGCCTTCCACTGGGAGCTGTTCCGAT  
GTGTGCATGAGCTGGAGTTCGTGGACTACGTGTTCCACGGGGAGCGCGGCCGCCGGGAGACGGCCAACCTGGAGC  
TGCTGCTGCAGCGCTGCAGCGAGGTCACGCACTGGGTGGCCACCGAAGTGCTGCTCTGCGAGGCCCCGGGCAAGC  
GCGCGCAGCTGCTCAAGAAGTTCATCAAGATCGCGGCCCTCTGCAAGCAGAACCAGGACCTGCTGTCTTTCTACG  
CCGTGGTCATGGGGCTGGACAACGCCGCTGTGACCCGCCTTCGACTCACCTGGGAGAAGCTGCCAGGGAAATTCA  
AGAACTTGTTTTCGCAAATTTGAGAACCTGACGGACCCCTGCAGGAACCAACAAAGCTACCGAGAAGTGATCTCCA  
AAATGAAGCCCCCTGTGATTCCCTTCGTGCCTCTGATCCTCAAAGACCTGACTTTCCTGCACGAAGGGAGTAAGA  
CCCTTGATAGATGGTTTGGTGAACATCGAGAAGCTGCATTACGTGGCCGAAAAAGTGAGGACAATCCGCAAATACC  
GGAGCCGGCCCCCTTTGCCTGGACATGGAGGCATCCCCCAATCACCTGCAGACCAAGGCCTATGTGCGCCAGTTTC  
AGGTATCGACAACCAGAACCTCCTCTTCGAGCTCTCCTACAAGCTGGAGGCAAACAGTCAGTGAGAGTGGAGGC  
TCCAGTCAGACCCGCCAGATCCTTGGGCACCTGGCACTCAAGCACTTTCACGATGTCTCAACCAACATCTGACA  
TCTTTCCCGTGGAGCAACTTCCTGCTCCACGGGAAAGAGGTGATGGAATTTACCCCTGGACCCATAAGTCTGTTC  
ATCCTGCTGAAGTCCCCCTCCCCATTGCTCCTTCAAGCCAAACTACACTTTGCTGGTTCCTGTCCCCCTCTGAGAA  
AGGGGATAGAAAGCTCCTTCTCTATGTCTCCCATCGAGATCTGTTCTGGGGATGGAGCTTCCAACCTCCTCTT  
GCAGCAGGAAAGAATGCTGCTCACCTTCTGTCTTGAGAGTGGGATTGTGGGAGGGATTGGCAGCCTTCTTCTC  
CACCACCTGTCCAGCTTCTTCTGCTCAGGGCTGGGACCCCAAGGAATATTATGTTGCCGTGTGTGTGTGTGT  
GTCTTTTAGGGAGCAAGAGTGCATCTGGTAAT  
TGAGGGTGGATGTTGT  
GTGCGGGGTGCTTTCTCCACCCCCACACTCCCTGCTCAGCTCCTCGTGCTGCCCTGCATGCCCAGGCTTGTGAGC  
CAAGCTGCTTTTTGGGGCAGGGAGTAGCAGCAGGTGGGAGGGGTACCCATCAGCCCTTGCAAGTCCCCACTCA  
GGCCTCTGGAAGGTCCAGGGATGGGCTCTGATGAGAGGGTAAAGATGCTCAGGGAAACACAGGCCCTCAGCTGCC  
TAGAGGACCTCCCCCTGCCTTGAGTGGGCTCGGGTAGAGCAGTATCAGGAGCTAGGGTTGTCTGCTGCCACA  
CTCCTGCTTTTTGGGATATCTAACTGCTAAGGAGGGAGTTGACATCCCCCTTCTGGCTCATGTGTCTGACACCA  
CAACATGGTCTCTGTCCCTCTCTCTTTGACTCTCCCTTTGTCTCCCCATAGAGCTGGGGTGGGGTGGATCCCTA  
TACCTGGGGCAGGCAGCCCCAAAGTGGGGGAGGGGGATGGCAGAGACTGTAAAGGCGCCACTGGACTCTGGCAAG  
GCCTTTATTACCTTTACTCCCCCTCCCTCTCCCATCACCAGCCTCAAGGCCTGAGGGGTGCAGGGGCTCCTGGCAG  
CTACTGGGTGAGGTTTCTTGGCACAGACTCACCTTCTTTCTGGCACCACTCTTTCCCTTTTGAAGAGACAGCA  
ACAGCCGTAGCAAAAGCAGCTGCTGCTCCTGCTATGAGGGTGTATATATTTTTTACCCAAAGCTCTGGAATTGTA  
CATTTATTTTTTAAACTCAAAGAGGGAAAGAGCCTTGATCATATGTGAACATTGTATCATAGGTAATGTTGTA  
CAGACCCTTTTATACAGTGATCTGTCTTGTCTCCTGCAGCAAAAATCCTCTATGGACATAGGAGGTGCTGTGTCCC  
ATGCCCTCTTGCCCTGACAGTGTCCCATGGGCCCCCTTCTGCTCCCTGCCCTCCCTGCTACTGCTGATGCACT  
CTCCTCTCCCTGCAGCCCCCTGGCTTCCAGCCTTCCCTCCTGACCCCTTCCAACAGCCTTGGAACTCCAGCTGCCA  
CCACCCTCTGGGTGCGACACTGGGACCCACTGGCCAGTCTTGCTGCTGCTTACCCCTAGCCTTGATGCCTGCC  
CAGGGACCCCCAGCCCCCTCCCGTTGCCCTGCAGCTTTAACAGAGTGAACCATGTGTATTGTACAGGCGCGGTTG  
TCATTGCAGAAACCGCTGGGTGGAGAAGAAGCCGATAAAGTCTATGAATC

239/5332  
**FIGURE 215**

CCCCCTACACACACACACACACACACACACACACACACACAGACATGCACACACGGACATGGGAAGGCA  
ATGCTATGCTGCCCAGAGGGCACTGTCCTTCCCCAATCGTTCAGGTGTTCCAACAGGGGTGGAGGGCCTGGAGG  
AGCACCCGCTGTACCTGTGCATGTGCCTGTCCCACCGGCCCCCATGGACGCCCCCAGCACGGGGCGCTGAGAC  
CCCCGCGTCGCTGCCCAGCCCGGTCCGGCGCGCCACGCCGAGGGATCTCTGGACAGGACAAGACTCCGAAGCTAC  
TCCCCAGCACACAGCCCGGGACCCACAAACCCAGCTTGCCCCAGCCCTCCCACCTGCCACTCCCTGGCCCCCTC  
CCACCGCCCGCCCCCTTGGGGCGCAGGGCATGGTGTGAAAGGCCAAGTGCTGAGGCGGGTATCATGGGTGCTGT  
GCCCTAGGGCCTGGGTGGCAGGGGGTNGGGTGGCCTGTGGGTGTGCCGGGGGGGCCAGTGTGCCACCCAGTCT  
CTTGGCGTGCTGGAGGGCATCCTGGATGGAATTTGAAGTGAATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTC  
AGACCCAGAGGAGAACAGTGCCAGGTCACCAGATGGAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAAC  
CAGCATGTCAGGGTATATCCCTAGTTACCTGGACAAAGACGAGCAGTGTGTCGTGTGTGGGGACAAGGCAACTGG  
TTATCACTACCGCTGTATCACTTGTGAGGGCTGCAAGG

240/5332  
**FIGURE 216**

CGAGGCGCTCCCTGGGATCACATGGTACCTGCTCCAGTGCCGCGTGCGGGCCCGGGAACCCTGGGCTGCTGGCGCC  
TGCGCAGAGCCCTCTGTCCCAGGGAAGGCTCGGGCAAAAGGCGGCTGAGATTGGCAGAGTGAAATATTACTGCC  
GAGGGAACGTAGCAGGGCACACGTCTCGCTCTTTGCGACTCGGTGCCCGTTTCTCCCATCACCTACTTACTT  
CCTGGTTGCAACCTCTCTTCCCTCTGGGACTTTTGCACCGGGAGCTCCAGATTGCCACCCCGCAGCGCTGCGGAG  
CCGGCAGGCAGAGGCACCCCGTACACTGCAGAGACCCGACCCCTCCTTGCTACCTTCTAGCCAGAACTACTGCAGG  
CTGATTCCCCCTACACACTCTCTGCTCTTCCCATGCAAAGCAGAACTCCGTTGCCTCAACGTCCAACCCCTTCT  
GCAGGGCTGCAGTCCGGCCACCCCAAGACCTTGCTGCAGGGTGCTTCGGATCCTGATCGTGAGTCGCGGGGTCCA  
CTCCCCGCCCTTAGCCAGTGCCAGGGGGCAACAGCGGCGATCGCAACCTCTAGTTTGAGTCAAGGTCCAGTTTG  
AATGACCGCTCTCAGCTGGTGAAGACATGACGACCCCTGGACTCCAACAACAACACAGGTGGCGTCATCACCTACA  
TTGGCTCCAGTGGCTCCTCCCAAGCCGCACACGCCCTGAATCCCTCTATAGTGACAACTCCAATGGCAGCTTCC  
AGTCCCTGACCCAAGGCTGTCCACCTACTTCCCACCATCCCCACTGGCTCCCTCACCCAAGACCCGGCTCGCT  
CCTTTGGGAGCATTCACCCAGCCTGAGTGATGACGGCTCCCTTCTTCCCTCATCTTCCCTCGTCGTCATCCTCCT  
CCTCCTTCTATAATGGGAGCCCCCTGGGAGTCTACAAGTGGCCATGGAGGACAGCAGCCGAGTGTCCCCCAGCA  
AGAGCACCAGCAACATCACCAAGCTGAATGGCATGGTGTTACTGTGTAAAGTGTGTGGGGACGTTGCCTCGGGCT  
TCCACTACGGTGTGCACGCCTGCGAGGGCTGCAAGGGCTTTTTCCGTCGGAGCATCCAGCAGAACATCCAGTACA  
AAAGGTGTCTGAAGAATGAGAATTGCTCCATCGTCCGCATCAATCGCAACCGCTGCCAGCAATGTCGCTTCAAGA  
AGTGTCTCTCTGTGGGCATGTCTCGAGACGCTGTGCGTTTTGGGCGCATCCCCAAACGAGAGAAGCAGCGGATGC  
TTGCTGAGATGCAGAGTGCCATGAACCTGGCCAACAACAGTTGAGCAGCCAGTGCCCGCTGGGAGACTTCACCCA  
CCCAGCACCCACCCAGGCCCCATGGGCCCTCGCCACCCCTGCTCCGGTCCCTCACCCCTGGTGGGCTTCT  
CCCAGTTTCCACAACAGCTGACGCCTCCAGATCCCCAAGCCCTGAGCCACAGTGAGGATGTGATATCCAGG  
TGGCCCGGGCCATCGAGAGATCTTACCTACGCCATGACAAGCTGGGCAGCTCACCTGGCAACTTCAATGCCA  
ACCATGCATCAGGTAGCCCTCCAGCCACCACCCACATCGCTGGGAAAATCAGGGCTGCCACCTGCCCCCAATG  
ACAACAACACCTTGGCTGCCCAGCGTCATAACGAGGCCCTAAATGGTCTGCGCCAGGCTCCCTCCTTACCCTC  
CCACCTGGCCTCCTGGCCCTGCACACCACAGCTGCCACCAGTCCAACAGCAACGGGCACCGTCTATGCCCCACCC  
ACGTGTATGCAGCCCCAGAAGGCAAGGCACCTGCCAACAGTCCCCGGCAGGGCAACTCAAAGAATGTTCTGCTGG  
CATGTCCTATGAACATGTACCCGCATGGACGCAGTGGGCGAACGGTGCAGGAGATCTGGGAGGATTTCTCCATGA  
GCTTCACGCCCCTGTGCGGGAGGTGGTAGAGTTTGCCAAACACATCCCGGGCTTCGCTGACCTTTCTCAGCATG  
ACCAAGTACCCCTGCTTAAGGCTGGCACCTTTGAGGTGCTGATGGTGCCTTTGCTTCGTTGTTCAACGTGAAGG  
ACCAGACAGTGATGTTTCTTAAGCCGCACACCTACAGCCTGCAGGAGCTTGGTGCCATGGGCATGGGAGACCTGC  
TCAGTGCCATGTTTCTGACTTCAGCGAGAAGCTCAACTCCCTGGCGCTTACCGAGGAGGAGCTGGGCCTCTTACCG  
CGGTGGTGCTTGTCTCTGCAGACCGCTCGGGCATGGAGAATTCCGCTTCGGTGGAGCAGCTCCAGGAGACGCTGC  
TGCGGGCTCTTCGGGCTCTGGTGCTGAAGAACCGGCCCTTGGAGACTTCCCGCTTACCAAGCTGCTGCTCAAGC  
TGCCGGACCTGCGGACCCTGAACAACATGCATTCGAGAAGCTGCTGTCTTCCGGGTGGACGCCAGTGAACCG  
CCCGGCCGGCCTTCTGCGCTGCCCCCTTGTACAGAATCGAACTCTGCACTTCTCTCTCTTACGAGACGAAAA  
GGAAAAGCAAACCAGAATCTTATTTATATTGTTATAAAATATTCCAAGATGAGCCTCTGGCCCCCTGAGCCTTCT  
TGTAATAACCTGCCTCCCTCCCCCATACCGAACTTCCCTGCTCCTTTTTTTAAACCACTCTGTCTCCCCACA  
ACCTCCCTGGCCCTCTGATTTGTTCTGTTCCCTGTCTCAAATCCAATAGTTCACAGCTGAGCTGG

241/5332  
**FIGURE 217**

AGGGCTTCTTTTCGCCGCACAATCCAGAAGAACCTNCCATCCCACCTATTCTGCAAATATGACAGCTGCTGTGTC  
ATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGCATCGCCGTGGGCATGGCCATGGAC  
TTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAGAACCAGGGAGCGGCGGCGGAAGGAG  
GAGATGATCCGATCACTGCAGCAGCGACCAGAGCCCACTCCTGAAGAGTGGGATCTGATCCACATTGCCACAGAG  
GCCCATCGCAGCACCAATGCCAGGGCAGCCATTGGAACAGAGGCGGAAATTCCTGCCCAGTGCATTGGCCAG  
TCACCCATTGTCTCCATGCCGGACGGAGACAAGGTGGACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACC  
CCGGCCATCACCCGTGTGGTGGACTTTGCCAAAAAACTGCCCATGTTCTCCGAGCTGCCTTGCGAAGACCAGATC  
ATCCTCCTGAAGGGGTGCTGCATGGAGATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACC  
CTGACGCTGAGTGGGGAGATGGCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCTGGGCGTAGTCTCCGACGCC  
ATCTTTGAACTGGGCAAGTCACTCTCTGCCTTTAACCTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTG  
CTAATGTCAACAGACCGCTCGGGCCTGCTGTGTGTGGACAAGATCGAGAAGAGTCAGGAGGCGTACCTGCTGGCG  
TTCGAGCACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCCAAGCTGCTGATGAAGGAGAGAGAA  
GTGCAGAGTTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGCGGGTCACTGGGCGTCCACCCGGAA  
GGACAGCAGCTTCTCGGAATGCATGTTGTTTCAGGGTCCGCAGGTCCGGCAGCTTGAGCAGCAGCTTGGTGAAGCG  
GGAAGTCTCCAAGGGCCGGTTCTTCAGCACCAGAGCCCGAAGAGCCCGCAGCAGCGTCTCCTGGAGCTGCTCCAC  
CGAAGCGGAATTCTCCATGCCCGAGCGGTCTGTGGGGAAAGACGACAGCAGTGAGGCGGACTCCCCGAGCTCCTCT  
GAGGAGGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCCCTGAAGCCCCCAGAAAGGCCGATGG  
GGAAGGAGAAGGAGTGCCATACCTTCTCCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCTGAAAGCTGGGAGCGT  
GGGCTCAGCAGGGCTGGTCACCTCCCATCCCGTAAGACCACCTTCCCTTCCTCAGCAGGCCAAACATGGCCAGAC  
TCCCTTGCTTTTGTGTGTAGTTCCCTCTGCCTGGGATGCCCTTCCCCCTTCTCTGCCTGGCAACATCTTACT  
TGTCCTTTGAGGCCCCAACTCAAGTGTACCTCCTTCCCCAGCTCCCCCAGGCAGAAATAG

242/5332  
**FIGURE 218**

CTCCTCTCCAGCCCTTCTCCTGTGTGCTGCCTCCTGCCGCCGCCACCATGACCACCTCCATCCGCCAGTTCACC  
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC  
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCCTCGGGGGTAGCAGCTACTCCAGC  
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG  
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC  
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCCGCGCTGACTACAGCCAGTAC  
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT  
GACAATGCCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG  
GCCGACATCAATGGCCTGCGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG  
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT  
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG  
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAAGTGAACCGC  
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC  
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC  
TACTGCGTGCAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG  
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC  
CGCCGCTGCTGGAGGGAGAGGATGCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTGAGGTGCGT  
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTCATCTCCTCCCGCAGCAGGTCCACCAGACCACCCGCTTGAGGA  
CTCAGCTACCCCGGCCGCCACCCAGGAGGCAGGGAGGCAGCCGCCCATCTGCCCCACAGTCTCCGGCCTCTCC  
AGCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCTGATGACAATAAAGCTTGTTGACTCAGCT



243/5332  
**FIGURE 219**

ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG  
GGCGGCTCCAGCCGCATCTCCTCCGTCCTGGCCGGAGGGTCTGCCGTGCCCCAGCACCTACGGGGGCGGCCTG  
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC  
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT  
GGCTTTGGTGGTGGTTTTGCTGGTGGTGGTGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT  
GACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT  
GACTGGTACCAGAGGCAGCGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG  
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT  
GACTTCAGGACCAAGTATGAGCACGAAGTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG  
GTGTTGGATGAGCTGACCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC  
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTGAGACCGGCGGAGATGTGAACGTGGAGATGGAT  
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC  
CGCAGAGACGCTGAGACCTGGTTCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG  
GTACAGAGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG  
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC  
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC  
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGAT  
GCCCACCTTTCTCCAGCAAGCATCTGGCCAATCCTATTCTTCCGCGAGGTCTTCACCTCCTCCTCGTCCTCT  
TCGAGCCGTCAGACCCGGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

244/5332  
**FIGURE 220**

GGGTTGCTCCGTCCGTGCTCCGCCTCGCCATGACTTCCTACAGCTATCGCCAGTCGTCCGCCACGTCTCCTTCG  
GAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCCTTTCGCGCGCCCAGCATTACGGGGGCTCCG  
GCGGCCGCGGCGTATCCGTGTCTCCGCCCGCTTTGTGTCTCTCGTCCTCCTCGGGGGCTACGGCGGGCGGCTACG  
GCGGCGTCTTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACCGCC  
TGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACTGGT  
ACCAGAAGCAGGGGCTTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACAAGA  
TTCTTGGTGCCACCATTGAGAAGTCCAGGATTGTCTGTCAGATCGACAATGCCCGTCTGGCTGCAGATGACTTCC  
GAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGCTGG  
ATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGAAGA  
AGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCAGTGTGGAGGTGGATTCCGCTC  
CGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTCATGGCCGAGCAGAACCGBAAGG  
ATGCTGAAGCCTGGTTTACCAGCCGGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCCAGA  
TGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCA  
TGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGGCGC  
TGATCAGCGGTATTGAAGCCCAGCTGGGCGATGTGCGAGCTGATAGTGAGCGGCAGAAATCAGGAGTACCAGCGGC  
TCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATCACT  
ACAACAATTTGTCTGCCTCCAAGGTCCTCTGAGGCGAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTGTCT  
TCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCCGGCTCTTCTCCTGACCTGCCAATAAAAATTTATGGT  
CCAAGGG

245/5332  
**FIGURE 221**

GGTACCTCCTGCCAGCATCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCCATGACCACCACATT  
TCTGCAAACCTTCTTCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT  
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG  
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTCGTTTTCGGTGGAGG  
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA  
GAAAATTACCATGCAGAACCTCAATGACCGCTGGCCTCCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA  
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAACCAGCCCAGAATGCGACTACAGCCA  
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACCTCCCGGTCATCCTGGA  
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT  
TGAGGCTGACATCAACGGCTTGCGCCGAGTCTTGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT  
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT  
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA  
GCAGTACGAGGCCATGGCGGAGAAGAACCGCCGGGATGTGAGGCTGGTTCTTCAGCAAGACTGAGGAGCTGAA  
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA  
GGAGCTGGAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG  
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCCAGCTGAGTGAGCTCCGATG  
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC  
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGCCATCAGGGAAGCCTCTTCAGGAGGTGG  
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCACAAGAGAGA  
AATCTAAGTGTCTATTGCAGGAGAAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA  
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTTCAGGG  
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA  
CAAGCTCATTGTACAGTGTCTGTTTCATGTAATAAAGAATTACTTTTCTTTTGCAAAT

246/5332  
**FIGURE 222**

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG  
CCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC  
GGTTTGTGTCCGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGCTGGTAGTG  
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGGT  
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA  
ACCTCAACGACCGCCTGGCTTCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA  
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG  
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC  
TGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG  
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG  
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGCCAGGTCAACG  
TGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG  
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACACCAAGAGTGCAGAGCTGAACAAGGAGGTGTCTACCA  
ACACTGCCATGATTACAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC  
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC  
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA  
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG  
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACC  
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC  
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCTGCAGGAGAGAGAGGGGGCTGCTGGACCCAAGGCTCAGT  
CCCTCTGCTCTCAGGACCCCTGTCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTCCGGTCGGA  
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG  
TTTCCTGCCTTTCTGCAAACATA

247/5332  
**FIGURE 223**

GAGAATTTAGACTCTGTCTTCAGCCAGGCACTCCCTCCCTCCCTCCCAGCACTATGCCCTACAACCTTCTGCCTGC  
CCAGCCTGAGCTGCCGCACCAGCTGCTCCTCCCGGCCCTGCGTGCCCCCAGCTGCCACAGCTGCACCCTGCCCG  
GGGCCTGCAACATCCCCGCCAATGTGAGCAACTGCAACTGGTTCTGCGAGGGCTCCTTCAATGGTAGCGAGAAGG  
AGACTATGCAGTTCTGAACGACCGCCTGGCCAGCTACCTGGAGAAAGTGCCTCAGCTGGAGCGGGACAACGCGG  
AGCTGGAGAACCTCATCCGGGAGCGGTCTCAGCAGCAGGAGCCCTTGCTGTGCCCCAGTTACCAGTCCTATTTTA  
AGACCATTGAGGAGCTCCAGCAGAAGATCCTGTGTACCAAGTCTGAGAATGCCAGGCTTGTGGTGCAGATCGACA  
ACGCCAAGCTGGCTGCGGATGATTTTCAGAACCAAGTACCAGACCGAGCTGTCCCTGCGGCAGCTGGTGGAGTCGG  
ACATCAACGGTCTGCGCAGGATCCTGGATGAGCTGACCCTGTGCAAGTCCGACCTGGAGGGCCAGGTGGAGTCCC  
TGAAGGAGGAGCTGCTCTGCCTCAAGAGCAACCATGAGCAGGAGGTCAATACCCTGCGCTGCCAGCTTGGAGACC  
GCCTCAATGTGGAGGTGGATGCTGCTCCCACTGTGGACCTGAATCGGGTGCTGAACGAGACCAGGAGTCAGTATG  
AGGCCCTGGTGGAAACCAACCGCAGGGAAGTGGAGCAATGGTTACCAACGCAGACCGAGGAGCTGAACAAGCAGG  
TGGTATCCAGCTCAGAGCAGCTGCAGTCCTACCAGGCGGAGATCATCGAGCTGAGACGCACAGTCAACGCCCTGG  
AGATCGAGCTGCAGGCCCAGCACAACTGCGAGACTCTCTGAAAAACAGCTGACAGAGAGTGAGGCCCGCTACA  
GCTCCCAGCTGTCCCAGGTGCAGAGCCTGATCACCAACGTGGAGTCCCAGCTGGCGGAGATCCGCAGTGACCTGG  
AGCGGCAGAACCAGGAGTACCAGGTGCTGCTGGATGTGCGTGCCCGGCTGGAGTGTGAGATCAACACATACCGGA  
GCCTGCTGGAGAGCGAGGACTGCAATCTGCCAGCAATCCCTGTGCCACGACCAACGCGTGAGCAAGCCCATCG  
GACCTGTCTCTCCAATCCCTGTACCTCTTGTTGCTCCCTCTGCCCCCTGCACACCCTGTGCCCCACGCCCCGCT  
GTGGGCCCTGCAATTCTTCGTGCGCTAGAACCTAGGGAATGCCAGAGGAGCAAGGATGCAGGGCCCAGGACTCC  
AGAGCTGTGACCTGGCTCTGGTTCAACAAAAGGGGCCTGAAAACATCATTTGCATGGCTGGAGTTGCCCGCGTAA  
GGCAGCCAAGAAACTCACCCAAAGCCTGTAGCCTCCCCAACTACTCCAGACTGTCTGCTACCCCTTTCTTCTCT  
GGGGGTCTGTTCTCTCTATGCTCACCCAGAGAACTCTCTGATGTGCCAGTGGGCCTCCCTTTTAACCTCCTAAT  
AAATATCATTTCTTGGCAA

248/5332  
**FIGURE 224**

ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACCACCTGCAG  
CCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG  
CATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGCGCCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC  
CCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT  
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC  
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT  
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG  
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC  
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA  
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACCTGACCCT  
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA  
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT  
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG  
GTTCTTACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA  
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT  
GGAGAACAGCCTGGAGGAGACCAAAGTTCGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT  
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATCCTGCTGGACGTGAA  
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAGGGCGAGGACGCCCCACCTCTCCTCCTCCCA  
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTGATGGATGT  
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCTTCGCACCAAGAACTGAGGCTGCCAGCCCCGCTCAG  
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA  
CCCTGCTTACCCCTACCCCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

249/5332

## FIGURE 225A

AGGCCTCCTCGCTGGGGAGGCAGAGTCCTCGCGTGGTCTCCTGCCTCGAGCACAGCCTGTGCCCAGGGGAGCCGG  
GCTTGCAGACAACAGCAGTGGTGTCCATCGGCTCTGGAGACCATCAGTTCAACCTCGCAGAGATCCTGTCACAGA  
ACTACAGTGTAGGGGGAGTGCAGGAGGCCTCGAGGTGCCAGACAAGCCCAAGGAGGAGCTGGAGAAGGACT  
TCATCTCCCAGAGCAACGACATGCCCTTTGATGAGCTGCTTGCCTCTATGGCTACGAGGCGTCAGACCCCATTT  
CAGACCGGGAGAGTGAGGGTGGTGACGTGGCCCCGAACCTCCAGACATGACCCTGGACAAAGAACAATAGCGA  
AGGATTTGCTTTCAGGGGAAGAAGAGGAAGAGACGCAATCATCTGCTGACGACCTCACCCTCGTGGCTGACCTCCC  
ACGAGGCCTCCGACCTCTTCCCTAACCGGAGTGGATCTCGTTTCCCTGGCTGATGAAGACAGAGAGCCTGGCTCTT  
CTGCCTCCTCCGACACCGAGGAGGACTCTCTTCCCTGCCAACAAATGTAAGAAGGAGATCATGGTGGGACCTCAGT  
TCCAAGCTGACCTCAGCAACCTGCACCTTGAACCGGCCTGTGAGAAGATCTACGAGAACGAAGACCAGCTGCTCT  
GGGACCCAGCGTCTCCTGAGAGGGAGGTGGAGGAGTTCTGTACAGGGCGGTGAAGCGCGCTTGGCAGCAGA  
TGCCCGGGCCTCAGCTCCCAGAGGGAGAAGCCGTGAAAGACAGTGAGCAGGCGCTGTACGAGTTGGTGAAATGCA  
ACTTCAATGTGGAGGAGGCCCTGCGAAGGCTGCGGTTCAACGTGAAGGTGATCCGAGATGGGCTCTGTGCTTGA  
GTGAAGAGGAGTGACAGGAACCTTGTGACACGGCTCCGTGTGCATGGAAGAAGCTTACCTGATCCAGGCCAACA  
AGGTGCGCACACGGTCAGTGGGCGAGTGTGTGAGTACTACTACCTGTGGAAGAAGTCGGAGCGCTACGACTACT  
TCGCCCAGCAGACGCGGCTGGGCGGAGGAAGTACGTCCCGTCCGGAACACGGACGCAGACCAGGACCTGGATG  
GCAGCGACCCCGATGGCCCCCGGCGTCCGCGCCCGGAGCAAGACACCCTGACTGGGATGCGCACAGATCCACTGA  
GCGTGGATGGCAGGCGCGGTGGTCTCGATGAGCCCGGAGTGGCCTCTGATGGACTCCCGTCTCGGAGCCAGGGC  
CGTGTTCCTTCCAGCAGCTGGATGAGTCCCCCGCTGTACCCCTGTCCCATCGGCCCCCAGCCCTGGCCGACCCAG  
CCTCATACCAGCCAGCTGTCACTGCTCCGGAGCCAGACGCCAGCCCAAGGCTGGCCGTGGACTTCGCCCTGCCCA  
AGGAGCTGCCCTCATCTCCAGCCATGTGGACCTCAGCGGGGATCCGGAGGAGACTGTGGCCCCAGCACAGGTGG  
CTTTGTGGTACCCGAGTTTGGACTCATCGGCATTGGGGACGTGAACCCCTTCTGGCCGCCACCCACAGTGCC  
CGGCCCCCGGGCTACACTCGGAGCCCCGTGTACACTGTAACGTGATGACCTGCTGACTCCTGGCCGCGGGCGGGC  
TATGCGGGCCAGACTGGACTTAGCGCTGCCGTGGGCCCCGCTCTGTCACTTCTCTGACCCCTTCCCCACCCCC  
CGGGCCTTGGGGTAGCACCTCCTTCTGCTTCAAGACAGTCAGGACTGGGGTGAGGTGGCTGGGCGGTGAGCCCT  
TGCCCCCTGTCCACACAGAATGGACCCACGGCCCCACCCAGCGCCGTACAGCGCCCCGGCACTGCCACCCGGGTCCGG  
GCCGCTGCCTGCACGTGGGATCCGTTCGGGCAGCCGGGGACAGAAGAGACCCCCGCCGTGGGACGCAGGGCAGAGC  
CGGCCACCTAGTCCCTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACGC  
CCTGCCCCGCACCAGCAGCCTCCGCCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCTCTCCACACCCGGCAGG  
GCCGCGGGCTGCCCCAGCCCTGGGGGTGCTGGGCAGCTGCTACTCAGTGCCAACCCCGTGGGGCAGAGCCATA  
TACCTCGCTGTCCGGCCCCCACCACAGCCTCGCCTTCCACCCCATCGTCTCCACTCAGGAAAAGCCGCACTTT  
ACACCCCCACCTGCCTCTTCCCCCTCCATCCCTGCTCCCCGATCCTGAGCGGTTGGGGTGGGTCCCTCAGCAAC  
CCCAGGCGTGGGTTTGGAGAGACAGGTGATTTACATCCCTTTGCTGTCTCCCCCGGTACCAAGGCAGGGAGCC  
TCCGGAGGAGCCGGCCCTGCTGGCCACGCAGGGGCCAGACTCCAGCCTGTTTCCCCAGCCCTGCAGGTCTTCCTT  
CTGTGGGAAGCTTCTAGCAAGATGGCTTGGAGTCTGGTCCCCCTCCTCCCTGGCCCTCTCGTTCGTTTCTGTT  
TCTGTTTACACGTTGGAGTGGGGTCTCCGTGGGCGGCGCGCCCTGCCCCGGGTGTCGTCCGGCCTCTTGTTG  
CTCGAGCCCTTTCCGAGTTGGACTCGACCATCCCTACCCCAACCAAGGACCACTGTGAAGTGATAACTGCCT  
TGAACCCCTTTGCTGTTTTATTTATTAACTTGATTTGAAGCCCGGGGTGCCCTTGTTGGTGGATCGGGTGGGG  
CTGGGGCGGCAGGTGTCTCGTCATCTCACTTGGGGCCTGCATGTCTCTTGGAGGGTCCAGGATAAGTCGTGAG  
CAACACGGGCGAGGGGTGCACCGGGGGCATGACGTGGTGGGCTACGTATTGTTACGTCAGTAAGGGAATTGTG  
GCCACGATGACGGGATGTGAGGAGGGGCCACGTCTGGGTAGAGGTGGTCCGGGCAGCCTCTAGAAGTGATATTT  
AAGCTGAAACATGAAGGAGAATGGGCCTCCTTTGCTGAAAGTTTGCCGAGAGGCCTGGCAGGCGTGACAGCAGAT  
GCAGAGGACAGAGGCCTGGGTCTCCAGGAGAAGCTGAGGGCAGAGGGCAGAGGTTGGGCGGGGTGGGGACAGT  
AGGTCAITAGAGCCAAGTTTTGTTCTTGGTGTGGAAGCCACTTTAGGTCTGCATTGTTTTTTGTTTTGTTTTGCT  
TTTTTTTTTTAGACAGGGTCTCACACTGTGCCAGGCTGGAGTGAGTGGTGGATCTCGGCTCACTGCAACCTC  
CGCCTCCTGAGTTACGCGATTCTCCTGCCTCAGCCTCCGAGTAGCTGGGATTACAGGCGCCCGCCACCTGGGA  
TTACGGGCGCCCGCCACCATGCCAGCTACTTTTTATATTTTTGTAGAGATGGGGTTTCTCCTTATTGCCAGG  
ATGGTCTCTATCTCTTGACCTTGTTCTCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGACATC  
GCGCCCGCTGAGGTCTGCATTGTTAATAGCGCCCTGCAGGGACGGTGCAGGCTGGTTGGGTGCATATTGTCCA

250/5332  
**FIGURE 225B**

CATCAGTGAGGGAAATGTGGGCATGCATGGTGATGGGATATGGGGAGGGCCGGCCCCCAGCTGGGAGGTGACTGT  
GGCTTGGCCTCAGGGACTATTGGTGAAGGACCAGGACCCTTGCATGATGGGTGTGGGAGAGTCAGGGGTCTTGC  
TGGTGAGCCTGTGCCAGGAGCTGTGAGAACCAGGGCCAGCCACTCGGCAACCTGGGTGTTTGGGGATGGGCATAG  
AGGAGTTTTATTGGAGCGCCGCAGCCTGCTGACGTTTTCTTCAGATGTGCAAGGTCTTCTGTCTTCCAGCTTGC  
CCTGCCTCCAGCAGGAAATCTTCAGTCCTCTCTTGGTTTTTTCCTCCAAGTCTTGAAGATTTTTCAGTACCA  
CTGGTTTTGAGCAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGGTGTGCTTTGGTGTATTG  
AGGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATG  
AGGATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT  
GGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGACTGATGAGAATGTGCTTTGGTGTATTGAGG  
TGCTGATGAGGGTGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATG  
AGGATGTGCTTTGGTGTATTGAGTCCGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT  
GGTGTATTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGT  
CTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATG  
TGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGT  
TTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATG  
AGAATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGATGAGGATGTGCTTTGGTGT  
TTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGAATGTGCTTTGGTGTATTGAGTCTGATG  
AGAATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTT  
GGTGTATTGAGGTGTCTGATGAGGGTGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTG  
AGTCTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGG  
ATGTGCTTTGGTGTATTGAGTCTGAAGAGGATGTGCTGTGGTGTATTGAGGTGTCTGATGAGGATGTACTTTGGT  
GTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGT  
CTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGTATTGAGGAGTCTGATGAGG  
ATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTT  
GGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGT  
CTGATGAGGATGTGCTTTGGTGTATTGAGGTGTCTGATGAGAATGTGCTTTGGTGTATTGAGGTGTCTGATGAGG  
GTGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTGTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGT  
GTACTGAGGTGTCTGATGAGGATGTACTTTGGTGTATTGAGGTGTCTGATGAGGATGTGCTTTGGTGTATTGAGG  
AGTCTGATGAGGATGTGCTTTGGTGTATTGAGGAGTCTGATGAGGATGTGCTTTGGTGTATTGAGTCTGATGAGG  
ATGTGCTTTGGTGTATTGAGTCTGATGAGGATGTGCTTTGGTGTATTGACGAGGATGTGCTTTGGTGTATTGAGG  
TGTCTGATGAGGATGTGCTTTGGTGTAC



251/5332  
**FIGURE 226**

CCCCGGGGAACCCGTTTCTCCCAGCTCTGGTCCCGGCAGGAGTAGCTGCTTGCCCCCTGCCTGCCCAGCACTCCT  
GTCCCTGGCCTGCAGGACCCCTTTGAGGATGCCCTGAAGTTGCATGAGTGCTCAGTGGCGGCAGGCGTGACAGCAG  
CCCCCTCTTCCCTTGGAGGACCAGTGGCCCAGCCCCCTACCCGCCGGGCCCCCTGTGGCCCCCACGGAGGAACAGC  
TGCGTCAGGAGCCCTGGTACCACGGCCGGATGAGCCGCCGGGCGGCAGAGAGGATGCTTCGAGCTGACGGGGACT  
TCCTTGTGCGAGACAGCGTCACCAACCCCGGGCAGTATGTCCTCACCGGCATGCACGCCGGGCAGCCCAAGCACC  
TGCTGCTCGTGGACCCCGAGGGCGTGGTACGGACGAAGGACGTGCTGTTTGAGAGCATCAGCCACCTGATCGACC  
ACCACCTGCAGAACGGGCAGCCCATCGTGGCCGCCGAGAGTGAGCTGCACCTGCGTGGCGTGGTCTCACGGGAGC  
CCTGAGCCAGGTGACCGTTCTCAGCCCTGGCTCCTGCCTGTTCTCAGCCCCGGCTCCTGCCTGTCATGGCCTTGG  
GGCTCTCAGCCCTCCTCCTGGATCCTGGTCAGGCCGAACCACCGCTGCCTCTCCTTCCTCCGCATGAGCCTCTGG  
CATGGTCCTTCCCTCCAGCTGGCCCCGGGCTGGGCAGAGCCTCCTCCTGCCGGGGCCCCCTGCCACCCCCCTCCTTT  
GCCTGGAGTGAGGGTGTTCAACCAAAGACGGAACCATTTGCCTTTAAAGAAAATATATCCAGAAGCAGCCGCT  
GCCTCGGAGCCCTGGCCCTTGGGTCCCCCTCTCGCCTGGCTGGTTCGGTCTAACGCCCCGGAGAGTCAGGGCTCC  
CAGGACCCTGGGGAGGAGGCGGATTCCGGGCCTGGCTGGGCTTCTCTTCCCACCTGAGGACTGGGTGCACAGTT  
GTCCTTGAGGGGGGACGCTTAAGGTGCTTTGGGGTTCTCAGGCCAGGATACATGCTGGCGCTGAAGTGCAGGCAG  
CCTTGAGGTACCTGGGATCTCGGGGTAGCCAGGCTGCTCCAAGACAGTGGATATCGAGGCAGTCGTGAGGCCCC  
TACTCCACCTGGGAGCAGGGGAAGGACGTGGTTGCCTGGCCTGGGCTGCGCCAGCAGCTTCCCCCAGTCCTGC  
CCTCCCAGCTGTCGACCCAGATGGGATGTTTCGGATCGGTTTGTAAATTAAACCTGGGAATGGCCACAAG

252/5332  
**FIGURE 227**

GC GGTTTCCCGCCGCGGGTGAATGAGTCCGACTGCCGTGCCGCCGCCGCCGCCGCCCGCATCGAAGCTCCGGCCG  
CGTCCCCCGCGCCAGCCCCGGGAGCCTGCGCGCCGAGACCCCTGCGTGTCTGCGAACAGACCTCCGGCCTCGGGC  
CATCACCCCGGGCAGACGCTGCAGCCCCTGTCCGGGCCTCTTGCTGCCGCCCCCATGAGAAAAACCAACATGTG  
GTTCTTGAGCGGCTTCGGGGGTCTGGGGAAAACGGTGCTGCCCGGGGCGTGGGGAGTGAGGCGGGGGACAAGGC  
CTCCAAGGGGCCCTGTACAGCAATGTGTTGACGCCCCACAAGATCCCCGACTTTTTTCATCCCCCCCAAGCTGCC  
CTCGGGCCCCGCGGAGGGCGAGGGACAGGCCGCGCTGGGCCCCCTCCACGTCGGAACAGAACCTGGCCTCTGCGGC  
CCCCCGCCAGACCCACGGAGCCCCCGGCTGCCCTGCCAAGCTGGCAGCCGAGAGCAAGAGCCTGCTGAAGGCAGC  
CACCCGSCACGTGATCCAGATCGAGAGTGCCGAGGACTGGCTGTCCGAGGAGGCCACTGACGCCGACCCCCAGGC  
CCAGGGTGCCATGTCCCTGCCCTCGGTGCCCAAGGCCAGACGTCCTACGGCTTCGCCATGCTGGCTGAGAGCCC  
CCACACGAGGGCGCAAGGAGTCTCTGTTCCACAGTGAGCACGGGGCTCTGGCCAGGTGGGCTCCCCAGGGGCCGG  
GCGCCGCCGGGCGAGCTGCCAAGGCCAACGGGGGTGATGGGGGCCCCAGGGAGGCTGGCGGGGGCCCTCATGAGCCC  
CGGCCGTACTTCAGTGCGGGGAGAGCGACACAGGGTCTCGGCCGAGTCTCCCCCTTCGGGTCCCCTCTGCT  
GTCCCGCTCCGTGTCTCTGCTCAAAGGTTTCGCCCAGGACAGCCAGGCCAAGGTGAGCCAGCTCCGGCACTCCGT  
GGGCCGCCACGGCTCCCTGTCTGCGGACGACAGCACCCCGGACGCCAGCCCCGGGAGCCGGCGCCGCTGACCCG  
CCGGGCACCCCCGGAACCTGGCCCCGAGTCGGGCCAGGCGCGTGGGGAGCACACGGTCCACGTGGGGCCCTCGGGG  
CAGCGTGCGGCTGCTGGCCGAGTACGAGGCCGCGCCAGGCCCGCTGCGGGTGACCTGCTGGCCGCCGAGGGCCT  
CTACGACCGCTGTGCGACGCCCGCAGCATCAACTGCTGCGTGCGGCTGTGCTGGTGGCCGGCAAGCTGCAGAA  
GCAGCGCAGCACCATCGTGAAGAACAGCCGCCGCCCGCTTCAACGAGGATTTCTTCTTCGACGGCCTGGGGCC  
CGCCAGCGTCCGGAACCTGGCCCTCAGGATCAAGGTGGTGAACAAGGGCAGCAGCCTCAAGCGGGACACGCTGCT  
CGGGGAGAAGGAGCTGCCCCCTGACCTCCCTGCTCCCCCTTCCTGTAGAGCGGGGACCTGCTCGCTGTCCGCTCGGG  
TGCAGAGGGCAGACCCCGGTCTCTCCTCCACACCGGGTGTGCGGGGCGGGTCCGCTGGCTTGGGCTGGGGCTGG  
CCGGGGAGGGGCTCACACTCAGGCTGGGCTGGGCGCTGATGCTGTAGCTGACGCAGGGTTTCTGGGTACCCGA  
TGCTGACTGGAGTATTATTTTTCATGAATTAATTTCTCCTTTGGAGGAGGAGGAGGAGGAGGAGGGGCCCTCGG  
GGGAAGAGAAGGGGCCACTTCGCGGGGCGAGAGGTCCCCCTTTGCCCTCCACACTGCCTCGCGCCTTTACAGCA  
GAGTTCTAGAAGGAGTTCTCAGGGGTTTCAGGAATCCGTGCATGTGGCCAGGGCGGGGCCGTGGACAGGGAGGTG  
ACAAGTCTTGAGCCACAGTCTCCTTCACTGCACGTGTGTCTTCTCCCCACAGCCTGCCGCCATCCAGTTCC  
CACCCCGCGGAGAGCAGGGCCTCGCGGCCACACCAGGCCAGGCTCTGCCCGGGACGCCCCCTCCAGGGGTGAG  
GCTTGGCTCTGGGAGACCCAGCTTCCCAGGCTCCGGTGGGAGTGGGGCCAGGCGAGGGTGCCCTGACGAGGGT  
GGGCGCGGAGGGAGCAGCCGCTGCCACAGTCGGAGCAGAGGAGGTCTTGGCAGAGGTCCGCGGGGAGGAGACGGC  
TCTCCTGGCCTGTTTTCTCCTCAACACTGTGCGCGCTGGCTTTTTGGGTACAGGCCCGTCTGGCCATTTCTGCTGT  
GGCGCCGGAGGGTCTTGCTCAGAGATGCCCAGAGAGCAGCCCTATGGCCCATCCGTCTCGTGGGGGCTGCCAC  
CCCGTCGCCCTTTTGTCCAGCGTCTGCAGCTGGGAGCGACACGCAGTGATTGACGGCCGTGGCTTTGACGCCACG  
TGTGTAAATAGGCTGTGGCTACGGTGGGTGGGTGCGAGCCAGGAGGCAGCTGGGGGGACCTGGCTATGGCCTTT  
CCTGCTGTTAGGTGGCTGCAAGGCTTCCATTGTGTGGTTATGTGGGTCTTGAATGATTTTGGGGAGGTTTCCAG  
CTCAGAATGATGCAGAAATGATAAGACTCAAAGCAGGGGCCAGGCCAGGCCAGTGCCTTCGCCTCTCCCGGCTGC  
TGGTGGGCACGGAGGAACAGGGCACATCTGTGGTACCCAGGGACGTCCCTTGTGAGCCCGTTTGCCACACATTG  
TTCTCTTGTCCAGGGGAGGGTGGAGGAGCTGCTTCCCAGGACTGGAGGAGCAGCTGGGCCCCGTGCTGCAGCTCC  
GGTGGGACACACCTGTGAGCCCCGCTTCTCTGATGCTACCCCTCCCAGGCCCTGTTCTCCCTGGGGTCCCCCG  
TTTAGTAGCCCCCTGCACTCTTTGATATCTTAGTGTCTGAGGTTGACTGTGGGTAAATCTTTAAGACACTCCCC  
AGCTGTGTTTGTATAAATGCTGTTTATAGTGCAATAAAGGTGTTTCGGG

253/5332  
**FIGURE 228**

GGTCCGGGGACGCCGCCGCCGCCGAGTGGATCCGGAAGGGCAGCTTCATCCACAAACCCGCGCACGGCTGGC  
TACACCCCGACGCCAGGGTCTTGGGGCCCGGGTCTCTACGTCGTGCGGTACATGGGCTGCATCGAGGTTCTCC  
GCTCTATGCGCTCCCTGGACTTTAACACGCGCACGCAGGTGACCAGCTCCTGCCACCACTCAGGCTGCAGACAGG  
ATCTCGACACGGACCCCGCGTCAGGCTCAGGGCCTCCTGCTCGCTGCTCCAACCCCCACATCTGATGCCGAGCCT  
TCCTTGTGGGCCGAGGCCAGGGACACACTGGTCCCTGGGAAAGAGGGTGGTAGAGGGGCCAGAGCTGGGGGCCGG  
GCCTCTGCCGGATGCAAGGACGCACGTGGAGTGGGCTGGTGCCCAAGCTGCACCTGTCCTGTGGGGCACTCCTCC  
CCCAGGGAAGCCATCAACCGGCTCCATGAGGCCGTGCCTGGCGTCCGGGGATCCTGGAAGAAAAAGGCCCCAAC  
AAGGCCCTGGCGTCCGTCTGGGCAAGAGCAACCTTCGCTTTGCCGGCATGAGCATCTCCATCCACATCTCCACT  
GATGGCCTCAGCCTCTCCGTGCCACGCGCCAGGTCATCGCCAACCACCACATGCCGTCCATCTCCTTCGCG  
TCAGGCGGAGACACGGACATGACGGATTACGTGGCCTACGTCGCCAAGGACCCCATCAACCAGAGAGCCTGCCAC  
ATCCTGGAGTGCTGTGAGGGCCTGGCACAGAGCATCATCAGCACCGTGGGCCAAGCTTTCGAGCTGCGCTTCAAG  
CAGTACCTGCACAGCCCGCCCAAGGTGGCGCTGCCCCAGAAAGGCTGGCAGGGCCGGAGGAGTCGGCCTGGGGG  
GACGAGGAGGACTCTTTGGAGCACAATTACTACAACAGCATCCCGGGGAAGGAGCCGCCGCTGGGCGGG

254/5332  
**FIGURE 229**

GTACCACCGCCGGCCGGTTTTACGGACAGCGGCCGCCAGTCGGTATCCCGGGCGGCGGGGGCGGCCGAGAGCGAG  
GAGGACTTCCTGCGGCAGGTCGGCGTGACGGAAATGCTACGTGCGGCCCTGCTGAAGGTGCTGGAGGCGCGGCC  
GAGGAGCCGATCGCCTTCCTGGCTCACTACTTCGAGAACATGGGCCTGCGCTCGCCTGTAAACGGCGGCGCCGGG  
GAGCCCCCGGGCCAGCTCCTGCTGCAGCAGCAGCGCCTGGGCCGCGCGCTATGGCACCTTCGCCTGGCCCACCAC  
TCCCAGAGGGCCGCCTTCAACAACAACGTGAGCGTGGCCTACGAGTGCCTGAGCGCCGGCGGGCGCAGGAAGAGG  
CCGGGGCTGGACGGGCGCACCTACAGCGAGCTGCTCAGGCGCATCTGCCGGGACGGCCAAGCCCCGAGGAGGTG  
GTGGCGCCGCTGCTGCGCAAGGTGCAGTGCCGTGACCACGAGGCGGTGCCGCTGAGCGTCTTCCGCGCGGGCACA  
CTCACCTGCTTCGTGCTGCTGGAGTTCTGTGGCGCGCGCCGGCGCGCTCTTCCAGCTGCTGGAGGACTCGGCCGCC  
GCCGTGGCCGACCGCCGCGTGGGCCAGGCCGTGCTGGACACCCTGGAGGGCGCGCTGCAGGCCAGCGACGCCGCC  
GCGCCCGCGCGCTTCCTGGAGGCCGGCTCGCGCTTGGGGCCCGACAGCCTGGCGCTGGCGCTGGACCGCGCCGTC  
GGGGGGCGGCGGCCAGCGCGCCCATGACCCGCGAGGAGTTTCTGGAGAGGGCCGCGCGCTCTTCATCGCGAAG  
GTCAAGCCGCTGGGCTGAGGCCCGTGGGCCGCGCGGATCCGGGATCTGCGCTGGGGGGTCCCCGCGTGCGGGGCG  
CGCGGAGCCTTCCCTTCGCCCTGGTGAGGCCCTGCCATAACCAGGCGCCAGCCCTGCGGAGGAGGCCGGGGCTC  
CCAGGAAGCGGACGCCCCGTCCCCACACAGCGCCGCGGCCGCCCTCCACCCCCGCGGGAGCCCCCTGCCCCACGC  
TAATAAAATGTGTTGCGAGGCTGA

255/5332  
**FIGURE 230**

GGCAAGCGCCGGTGGGGCGGCGGCCAGAGCTGCTGGAGCGCTCGGGGTCCCCGGGCGGCGGCGGCGGCAGAG  
GGAGGAGGCAGGCGGCGGCCCCGGTGGCTCCCCCGGACGGTGC GCGGCCCCGGCCCGTCTCGCGAACTCGCGGT  
GGTCGCGCGGCCCCGCGCTGCTCCGACCCCGGGCCCCCTCCGCCGCCGCCATGGCTCGGCCGCTAGTGCCAGCTC  
GCAGAAGGCGCTGCTGCTGGAGCTCAAGGGGCTGCAGGAAGAGCCGGTTCGAGGGATTCCGCGTGACACTGGTGGA  
CGAGGGCGATCTATACAACCTGGGAGGTGGCCATCTTCGGGCCCCCAACACCTACTACGAGGGCGGCTACTTCAA  
GGCGCGCCTCAAGTTCCCCATCGACTACCCATACTCTCCACCAGCCTTTCGGTTCCTGACCAAGATGTGGCACCC  
TAACATCTACGAGACGGGGGACGTGTGTATCTCCATCCTCCACCCGCGGTGGACGACCCCCAGAGCGGGGAGCT  
GCCCTCAGAGAGGTGGAACCCACGCAGAACGTCAGGACCATTCTCCTGAGTGTGATCTCCCTCCTGAACGAGCC  
CAACACCTTCTCGCCCCGAAACGTGGACGCCTCCGTGATGTACAGGAAGTGGAAGAGAGCAAGGGGAAGGATCG  
GGAGTACACAGACATCATCCGGAAGCAGGTCTGGGGACCAAGGTGGACGCGGAGCGTGACGGCGTGAAGGTGCC  
CACCACGCTGGCCGAGTACTGCGTGAAGACCAAGGCGCGGCGCCGACGAGGGCTCAGACCTCTTCTACGACGA  
CTACTACGAGGACGGCGAGGTGGAGGAGGAGGCCGACAGCTGCTTCGGGGACGATGAGGATGACTCTGGCACGGA  
GGAGTCCTGACACCACCAGAATAAACTTGCCGAGTTTACCTCACTAGGGCCGGACCCGTGGCTCCTTAGACGACA  
GACTACCTCACGGAGGTTTTGTGCTGGTCCCCGTCTCCTCTGGTTGTTTCGTTTTGGCTTTTTCTCCCTCCCCAT  
GTCTGTTCTGGGTTTTACGTGCTTCAGAGAAGAGGGGCTGCCCCACCGCCACTCACGTCACCTCGGGGCTCGGTG  
GACGGGCCCAGGGTGGGAGCGGCCGGCCCCACCTGTCCCCTCGGGAGGGGAGCTGAGCCCGACTTCTACCGGGGTC  
CCCCAGCTTCCGGACTGGCCGCACCCCGGAGGAGCCACGGGGGCGCTGCTGGGAACGTGGGCGGGGGGCCGTTTC  
CTGACACTACCAGCCTGGGAGGCCCAGGTGTAGCGGTCCGAGGGGCCCGGTCTGCTGTGCTCAGCTCCAGGTCCTG  
GAGCCACGTCCAGCACAGAGTGGACGGATTACCGTGGCCGACTCTTTCCCTGCTTTGGTTTGTGTTGAAATCTA  
AATAAACTACTTTATGAG

256/5332  
**FIGURE 231**

GCCGCGGGCGGGCGGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTTC  
GTGCTGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAA  
GACCTTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTG  
AAGGGGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAG  
TGGGGAGAGTACTCCTGCGTCTTCTCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCAGAG  
GTGAAGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTG  
CCACCTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGC  
AGGTTCTTCGTGAGTTCTTCGACGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGGCCGACCCCGGC  
CAGTACCGGTGCAACGGCACCCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTG  
GCCGCCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAG  
CGCCGGAAGCCCGAGGACGTCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAG  
AATGACAAAGGCAAGAACGTCCGCCAGAGGAACCTCTTCTGAGGCAGGTGGCCCGAGGACGCTCCCTGCTCCACG  
TCTGCGCCGCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCC  
GTAGATTCCCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAAGGATTCTGTTCTTAGGT  
TTTTTCTTCTGAAGTGTTTTACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTTCAGCCTCT  
GGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTG  
TGGAAAGTCACAGGTCACACGAGGGGGCCCCGTGTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTT  
TGTGCTTTTATGTTTAAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTT  
GGCCACAGAGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTT  
GTCTGTGCATCCGGGGGAGCTCTGGAGGGGGTTTGCTGGGGAAGTGGCGCCATCGCCGGGACTCCAGAACCGCA  
GAAGCCTCCCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCC  
ACCCACCGCCACAATAAAGATCGCCCCACCTCCACCCTC

257/5332  
**FIGURE 232**

CGGGCGGGCGGGCAGCGGTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTTCGTGC  
TGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC  
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG  
GGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG  
GAGAGTACTCCTGCGTCTTCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCAGAGTGA  
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC  
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT  
TCTTCGTGAGTTCTTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGGCCGACCCCGGCCAGT  
ACCGGTGCAACGGCACCAAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG  
CCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAGCGCC  
GGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG  
ACAAAGGCAAGAACGTCCGCCAGAGGAATCTTCTGAGGTGGCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC  
GCCGCCGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATT  
CCATCATACACTTCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAAGATTCTGTTTCTTAGGTTTTTTTCC  
TTCTGAAGTGTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGA  
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCCTTGCCCTTTGTGGAAAGT  
CACAGGTCACACGAGGGGCCCCGTGCTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTT  
TATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAG  
AGGACTCACTTGCCACACCGAGGGCGACCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCTTGTCTGTGC  
ATCCGGGGGCGAGCTCTGGAGGGGGTTTGTGGGGAACGGCGCCATCGCCGGGACTCCAGAACCGCAGAGCCTC  
CCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCACCCACCG  
CCACAATAAAGATCGCCCCACCTCCACCCCTC

258/5332  
**FIGURE 233**

CGGCTCCGCTCCGCACTGCCCCGGCGCCGCTCGCCATCGACGCGCGCGGGGGCGGGCGGGCGGCCCGGGGAGAGCC  
CGGGCGCGACCCCCCGCGCCGGGGCCGCGCCGCGCCGCGCCCGCGCCCCCAACAGCAGCCGCGCCGCGCCG  
CGCCGCGCGCGCCCCCGGGCCCCGGGCCCGCGCCCCCCCCAGCACCCGCCCCGGGGCCGAGGCGTTGCCCCCGG  
AGGCGGCGGATGAGGGCGGGCCCGGGGGCCGGCTCCGACGCCGCGACAGCTCGTGCGGCCGCCCCGGCACCCCCG  
GCGCGGCGAGCACGGCCAAGGGCAGCCCCGAACGGCGAGTGCGGGCGCGGCGAGCCGCGAGTGACGCCCGCGGGG  
CCGAGGGCCCCGCGCGGGGGCCCCAAGGTGTCTGTTCTCGTGCCGCGGGGCGGCCTCGGGGGCCCGCGCGGGGGCCGG  
GGCCGGCGGAGGAGGCGGGCAGCGAGGAGGCGGGCCCGGGGGGAGCCGCGCGGCAGCCAGGCCAGCTTCATGC  
AGCGCCAGTTTCGGCGCGCTCCTGACGCCGGGCGTCAACAAGTTCTCGCTGCGGATGTTTCGGCAGCCAGAAGGCCG  
TGGAGCGCGAGCAGGAGCGCTCAAGTCGGCGGGGGCCGATCATCCACCCGTACAGCGACTTCAGGTTCTACT  
GGGACTTCACCATGCTGCTGTTTCATGGTGGGAAACCTCATCATATCCAGTGGGCATCACCTTCTTCAAGGATG  
AGACCACTGCCCCGTGGATCGTGTCAACGTGGTCTCGGACACCTTCTTCCTCATGGACCTGGTGTGAACTTCC  
GCACCGGCATTGTGATCGAGGACAACACGGAGATCATCCTGGACCCCGAGAAGATCAAGAAGAAGTATCTGCGCA  
CGTGGTTCTGTGGTGGACTTCGTGTCTCCATCCCCGTGGACTACATCTTCCTTATCGTGGAGAAGGGCATTGACT  
CCGAGGTCTACAAGACGGCACGCGCCCTGCGCATCGTGCGCTTACCAAGATCCTCAGCCTCCTGCGGCTGCTGC  
GCCTCTCACGCCTGATCCGCTACATCCATCAGTGGGAGGAGATCTTCACATGACCTATGACCTGGCCAGCGCGG  
TGATGAGGATCTGCAATCTCATCAGCATGATGCTGCTGCTCTGCCACTGGGACGGCTGCCTGCAGTTCTTGGTGC  
CTATGCTGCAGGACTTCCCGCGCAACTGCTGGGTGTCCATCAATGGCATGGTGAACCACTCGTGGAGTGAAGTGT  
ACTCCTTCGCACTCTTCAAGGCCATGAGCCACATGCTGTGCATCGGGTACGGCCGGCAGGCGCCCGAGAGCATGA  
CGGACATCTGGCTGACCATGCTCAGCATGATTGTGGGTGCCACCTGCTACGCCATGTTTCATCGGCCACGCCACTG  
CCCTCATCCAGTCGCTGGACTCCTCGCGGCGCCAGTACCAGGAGAAGTACAAGCAGGTGGAGCAGTACATGTCTT  
TCCACAAGCTGCCAGCTGACTTCCGCCAGAAGATCCACGACTACTATGAGCACCGTTACCAGGGCAAGATGTTTG  
ACGAGGACAGCATCCTGGGCGAGCTCAACGGGGCCCTGCGGGAGGAGATCGTCAACTTCAACTGCCGGAAGCTGG  
TGGCCTCCATGCCGCTGTTTCGCCAACGCCGACCCCAACTTCGTACGGCCATGCTGACCAAGCTCAAGTTCGAGG  
TCTTCCAGCCGGGTGACTACATCATCCGCGAAGGCACCATCGGGAAGAAGATGTACTTCATCCAGCACGGCGTGG  
TCAGCGTGCTACTAAGGGCAACAAGGAGATGAAGCTGTCCGATGGCTCCTACTTCGGGGAGATCTGCCTGCTCA  
CCCGGGGGCCCGCGCACGGCGAGCGTGCGGGCTGACACCTACTGCCGCTCTATTTCGCTGAGCGTGGACAACCTCA  
ACGAGGTGCTGGAGGAGTACCCCATGATGCGGCGCGCCTTCGAGACGGTGGCCATCGACCGCCTGGACCGCATCG  
GCAAGAAGAATTCCATCCTCCTGCACAAGGTGCAGCATGACCTCAACTCGGGCGTATTCAACAACCAGGAGAACG  
CCATCATCCAGGAGATCGTCAAGTACGACCGCGAGATGGTGCAGCAGGCCGAGCTGGGTGAGCGCGTGGGCCTCT  
TCCCGCCGCCCGCCGCCCGCCGAGGTACCTCGGCCATCGCCACGCTGCAGCAGGCGGGCGGCCATGAGCTTCT  
GCCCCGAGGTGGCGCGGGCGCTCGTGGGGCCGCTGGCGCTCGGCTCGCCGCGCCTCGTGCGCCGCCCGCCCCCG  
GGCCCGCACCTGCCGCGCCTCACCCGGGCCCCCGCCCCCGCCAGCCCCCGGGCGCGCCCCGCCAGCCCCCGGG  
CACCGCGGACCTCGCCCTACGGCGGCCTGCCCCGCCGCCCTTGTGGGCCCCGCTGCCCCGCGCGCCCTTGA  
GCCGCGCTCGCGCCACTGTCCGCTCGCAGCCCTCGTGCCTCACGGCGCCCCCGGCCCGCCGCGCCAGCCGACCGCA  
GCCCCGCCAGCAGCTCCACACCGCGCTTGGGGCCACGCCCGCTGCCGGGGCCGCGCGCCAGCCGACCGCA  
GGGACTCGGCCTCACCCGGCGCGCCGCGGGCCTGGACCCCCAGGACTCCGCGCGCTCGCGCCTCTCGTCCAAT  
TGTCACCTCGCCGACCGCCCCCGGGGCCAGGCGGGGCCGGGGCGGGGCCGTATCCAGACCAAGCCATGCCA  
TTGCGCTGCCCCGGCCGCGAGTCCGCCCAGAAGCCATAGACGAGACGTAGGTAGCCGTAGTTGGACGGACGGGCA  
GGGCCGGCGGGGCGAGCCCCCTCCGCGCCCCCGGCCGTCCCCCTCATCGCCCGCGCCACCCCCATCGCCCCGT  
CCCCCGCGGGCGGCTCGCGTGCAGGGGGCTCCCTTCACCTCGGTGCCTCAGTTCCCCCAGCTGTAAACAGGG  
ACGGGGCGGGCCAGTGGCTGAGAGGAGCGGCTGTGGAGCCCCGCCCCCCCCACCCCTCTAGGTGGCCCCCGTC  
CGAGGAGGATCGTTTCTAAGTGCAATACTTGGCCCGCGGCTTCCGCTGCCCCATCGCGCTCACGCAATAAC  
CGGCCCGGGCCCCGTCCGCGCGCGTCCCCGGTGACCTCGGGGAGCAGCACCCCGCCTCCCTCCAGCACTGGCAC  
CGAGAGGCAGGCTGGTGCAGGGCGGGGGGGAGGCTGGGGTCCCGCGCGCTGATGAATGTACTGACGAG  
CCGAGGCAGCAGTGCCCCACCGTGGCCCCCACGCCCCATTAACCCCCACACCCCATTCGCGCAATAAA



259/5332  
**FIGURE 234A**

AGGCGGCGCGGGCGCATGCGCAGGCGCGGGCCGGTGGGGTGGCCTGGAGCGGCGTGCGTAATGTCGGCACTTTGCTGGGGCCGCGGAGCGGCGGGGCTCAAACGAGCCCTACGGCCTTGCGGCGCGCCGGGACTCCCGGCAAAGAAGGGACCGCCGGTGGCGTCTGCGGCCCCAGGAGGAGCTCGTCCGCCAGCCCCAGGAGCAAGACCAAGACCGCAGGAAGGACTGGGGCCACGTGGAGCTGCTGGAGGTGCTCCAGGCGCGGGTGCAGGAGCTGAGAGCGTGTGCGGAGGTGGTGAACAGGGTGGATGTGGCGCGGCTCCCAAGATGTGGCAGTGGAGATGGTAGCCTCCAGCCACCCAGGAAGTCCAGATGGGGGCCAAGGATGCCACCCCGGTGCCCTGTGGCCGCTGGGCAAAGATACTGGAGAAGGATAAGCGGACCCAGCAGATGCGTATGCAGCGGTTGAAGGCGAAGCTGCAGATGCCATTCCAGAGCGGGGAGTTCAAGGCGCTGACCAGGCGCCTGCAGGTGGAGCCCCGGCTCCTGAGCAAGCAGATGGCCGGGTGCCTGGAGGACTGCACGCGCCAGGCCCCGAGAGCCCCCTGGGAGGAGCAGCTGGCCCCGGCTGCTGCAGGAGGCCCCCTGGGAAGCTGAGCCTCGATGTGGAGCAGGCCCCGTGCGGGCAGCACTCGCAGGCCCCAGCTCTCAGGTGAGCAGCAGAGGCTCCTGGCCTTCTTC AAGTGCTGCCTGCTCACTGACCAGCTGCCCTCGCCCCACCTGCTGGTCTGCCACCACGGCCAGCGGCAGAGAAGCGGAAGCTGCTCAGCTGGACATGTACAACGCCGTGATGCTTGGCTGGGCGCGGCAGGGTGCCTTCAAGGAGCTGTATATGTGTTATTCATGGTGAAGGATGCCGGCTTGACTCCGGACCTGCTGTCTATGCGGCTGCCCTCCAGTGCATGGGGAGGCAGGACCAGGACGCCGGGACCATCGAAAGGTGTCTGGAACAGATGAGCCAGGAGGGGCTGAAGCTGCAGGCACTCTTCAACGCCGTTCTGCTGTCTGAGGAGGATCGGGCCACTGTTCTGAAGGCCGTGCACAAGGTGAAGCCCACCTTCAAGCCTCCCGCCGAGCTGCCGCCCCCGGTCAACACCTCCAAGCTGCTCAGGGACGTGTATGCCAAGGATGGGCGTGTGCTTACCCGAAGCTGCACCTGCCCTTGAAGACCTGCAGTGCCTCTTTGAGAAGCAGCTCCACATGGAGCTGGCCAGCAGGGTGTGCGTGGTGTCCGTGGAGAAGCCACGTTGCCAAGCAAGGAGGTCAAGCACGCGCGGAAGACCTGAAGACCTGCGGGACCAATGGGAGAAAGCACTGTGCCGGGCGCTGCGGGAGACCAAGAACCGCCTAGAGCGCGAGGTGTACGAGGGCCGGTTCTCACTTTACCCCTTCTGTGCCTGCTGGACGAGCGCGAGGTGGTGCGGATGCTCCTGCAGGTCTGCAGGCGCTGCCCGCCCAAGGTGAGTCTTCAACCACCTGGCCCCGGGAGCTGAGTGCGCGCACTTTAGCCGGCACGTGGTGCAGAGGCAGCGGGTCACTGGCCAGGTGCAGGCGCTGCAGAACCACTACAGGAAGTACCTCTGCTTGTGGCTCCGACGCCGAGGTGCCCGAGCCCTGCCTGCCGCGGCAGTACTGGGAGGAGCTGGGGGCGCCCCGAGGCCCTGCGGGAGCAGCCCTGGCCCCCTGCCAGTGCAGATGGAGCTGGGCAAGCTGCTGGCGGAGATGCTGGTGCAGGCTACGCAGATGCCATGCAGCCTGGACAAGCCGCATCGTTCTCTCGGCTTGTCCCCGTGCTCTACCACGTGTATTCTTCCGCAACGTCCAGCAGATCGGCATCTGAAGCCGCACCCGGCCTACGTGCAGCTGCTGGAGAAGGCCGCGGAGCCCCACGTGACCTTCGAGGCGGTGGATGTACCATGCTTTGCCCCCGCTGCCCTGGACATCGCCGCACTCTGGTGTCTTCTGCTCAGCCCCACCAAGCTGATGCGCACGGTGGAAAGCGCCACGCAGCACAGGAGCTGCTGGAAACCTGCCCGCCCACCGCGCTGCATGGCGCACTGGACGCCCTCACCCAAGTGGGCAACTGCGCCTGGCGCGTCAACGGGCGCGTGTGGACCTGGTGTGCTGCAGCTCTTCCAGGCCAAGGGCTGCCCCAGCTAGGCGTGCCGCGCCCCGCCCTCCGAGGCGCCCCAGCGGCCGAGGCCACCTGCCGCACAGCGCCGCGCCCGCCGCAAGGCCGAGCTGCGCCGTGAGCTGGCGCACTGCCAGAAGGTGGCCCGGAGATGCACAGCCTGCGGGCGGAGGCGCTGTACCGCCTCTCGCTGGCGCAGCACCTGCGGGACCGCGTCTTCTGGCTGCCGCACAACATGGACTTCCGCGGCCGCACTACCTACCCCTGCCCGCCGCACTTCAACCACCTGGGCAGCGACGTGGCGCGGGCCCTGCTGGAGTTCGCCCAGGGCCGCCCGCTCGGCCCCGACGGCCTGGATTGGCTCAAGATCCACCTGGTCAATCTCACGGGGTTGAAGAAGCGGGAGCCGCTGCGGAAGCGCCTGGCCTTTGCGGAGGAGGTGATGGATGACATCCTGGACTCCGCGGACCAACCCTTGACGGCCGAAAGTGGTGGATGGGCGCGGAGGAACCTGGCAGACGCTGGCCTGCTGTATGGAGGTGGCGAACGCTGTGCGCGCTCCGACCCCTGCCGCTATGTCTCCACCTCCCCGTCCATCAGGACGGCTCTTGCAACGGCCTGCAGCATATGCTGCTCTGGGCGCGACAGCGTGGGCGCCGCTCCGTCAACCTGGAGCCCTCGGATGTGCCGAGGACGTGTACAGCGGCGTGGCCGCGCAGGTGGAGGTGTTCGTAGGCAGGACGCCCCAGCGGGCATGCGGGTGGCACAGGTGCTGGAAGGTTTCATCACCCGCAAGGTGGTGAAGCAGACGGTGTACGGTGGTGTACGGGGTACGCGCTATGGCGGGCGCTGCAGATTGAGAAGCGCCTCCGGGAGCTGAGCGACTTTCCCCAGGAGTTCGTGTGGGAGGCCTCTCAC TATCTCGTACGCCAGGTCTTCAAGAGTCTACAGGAGATGTTCTCGGGGACCCGGGCCATCCAGCACTGGCTGACC GAGAGTGGCCGCTCATCTCCACATGGGCTCTGTGGTGGAGTGGGTACACCCCTGGGCGTCCCCGTATCCAGCCCTATCGCCCTGGACTCCAAGGTCAAGCAATAGGAGGTGGAATTACAGAGCATACCTACACCCACAACGGAGACCCCTATCGCCCTGGACTCCAAGGTCAAGCAATAGGAGGTGGAATTACAGAGCATACCTACACCCACAACGGAGACATCAGCCGAAAGCCCAACACACGTAAGCAGAAGAACGGCTTCCCGCCCAACTTCATCCACTCGCTGGACTCCTCC CACATGATGCTCACCGCCCTGCACTGCTACAGGAAGGGCCTGACCTTCGTCTCTGTGCACGACTGTTACTGGACTCACGCAGCTGATGTCTCCGTATGAACCAGGTGTGCCGGGAGCAGTTTGTCCGCTTGCACAGCGAGCCCATCCTG

260/5332  
**FIGURE 234B**

CAGGACCTGTCCAGATTCCTGGTCAAGCGGTTCTGCTCTGAGCCCCAGAAGATCTTGGAGGCCAGCCAGCTGAAG  
GAGACACTGCAGGCGGTGCCCAAGCCAGGGGCCTTCGACCTGGAGCAGGTGAAGCGTTCCACCTACTTCTTCAGC  
TGACACCCCGTGAGCCTTGTCAGTGTGTAAATAAAGCTCTTTTGCCACCCCC

261/5332  
**FIGURE 235**

AGCAAACGGCCGGCGGGCGGGTGCCGCGGGGGGGCGGGCGGCGGAGTAGGTGGCGGCGGCCATGCGCCGAGGCG  
TCGCCGCATCCCGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGT  
CCAAGATGCGAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAAATGGTTCTGCCCCCTCC  
ACAGCTCCACAGACCAGAGCCGGCCACCGTTGGAGCACGTGGACCAGCACCTGTTACAGCTGCCGCAGGGCTAC  
GGACAGTTTGCTTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGAC  
GGCAGGGACCCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCC  
CGCCTCACCACGCGGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTC  
AACGGCATCATCAGCCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCCCTGCACTCAAACCCTATGGACTAC  
GCCTGGGGGGCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAACACAGGCCCCCACC  
GCAGATAAAGAGAAAATCCAGGCCCTCCCCACCGTCCCCGTCCTGAGGAGCACGTAGGCTCCGGGCTCGAGTGC  
CCTGTGTGCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGC  
TGCATCGTGCCCTGGCTGGAGCAGCACGACAGCTGCCCGTCTGCCGAAAAGCCTCACGGGACAGAACACGGCC  
ACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCTCTCCAGCTCGCCCAGCAAC  
GAGAACGCCACAAGCAACTCGTGASCCCACGTCCGGCCGTCCGGAAAGCACGGGGCCTTTCCCACCCACCCTCAGC  
CAGCGCCACACGGCACCCACAGACTGGGTGCCCCGGCGGCGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCC  
TGTTCAGGGCAGGACCCGGGCCCCGGCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTG  
GGGCGTCCCCAGCCTCCCCGTCTCTGTCTAACCTCACCCCTCTAAACGTTTCAGCGGTGGAAAGATTTTTATAATT  
TTAAATTATTACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGAC  
GGGGCCAGCGGCTCCCCAGCGCTGAAGCACGGGGTTCAGCGGCTCCCCAGTGCTGCAGGTGCCGCCAGGACG  
GGCCACGTGGGCCCCCAGCCTCCCCCTCGGCCGCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATG  
ACCAGCAAAATTCAAGAACAAAACCTGCTCCAACAGACTTTTTTAAAGGAAAAATATGTGTATCTTGAAAGCTAT  
TTAAAAATACACTACTTACAAAGAG

262/5332  
**FIGURE 236**

GTTCGCC**ATG**CGTCCCGGGGCGCCAGGGCCACTCTGGCCTCTGCCCTGGGGGGCCCTGGCTTGGGCGGTGGGCTT  
CGTGAGCTCCATGGGCTCGGGGAACCCCGCGCCCGGTGGTGTGTTGCTGGCTCCAGCAGGGCCAGGAGGCCACCTG  
CAGCCTGGTGCTCCAGACTGATGTACCCGGGCGGAGTGCTGTGCCTCCGGCAACATTGACACCGCCTGGTCCAA  
CCTCACCCACCCGGGGAACAAGATCAACCTCCTCGGCTTCTTGGGCCTTGTCCTACTGCCTTCCCTGCAAAGATTG  
GTGCGACGGCGTGAGTGCGGGCCCGGGCAAGGCGTGCCGCATGCTGGGGGGCCGCCCCGCGCTGCGAGTGCGCGCC  
CGACTGCTCGGGGCTCCCGGCGCGGCTGCAGGTCTGCGGCTCAGACGGCGCCACCTACCGCGACGAGTGCGAGCT  
GCGCGCCGCGCGCTGCCGCGGCCACCCGGACCTGAGCGTCATGTACCGGGGCGCTGCCGCAAGTCCTGTGAGCA  
CGTGGTGTGCGCGCGGCCACAGTCGTGCGTGTGGACCAGACGGGCAGCGCCCACTGCGTGGTGTGTCGAGCGGC  
GCCCTGCCCTGTGCCCTCCAGCCCCGGCCAGGAGCTTTGCGGCAACAACAACGTACCTACATCTCCTCGTGCCA  
CATGCGCCAGGCCACCTGCTTCTTGGGCCGCTCCATCGGCGTGCGCCACGCGGGCAGCTGCGCAGGCACCCCTGA  
GGAGCCGCCAGGTGGTGAGTCTGCAGAAGAGGAAGAGAACTTCGTG**TGAG**CCTGCAGGACAGGCCTGGGCCTGGT  
GCCCCAGGCCCCCATCATCCCTGTATTATTTATGCCACAGCAGAGTCTAATTTATATGCCACGGACACTCCTTA  
GAGCCCGGATTTCGGACCACTTGGGGATCCCAAGACCTCCCTGACGATATCCTGGAAGGACTGAGGAAGGGAGGCC  
TGGGGGCGCGCTGGTGGGTGGGATAGACCTGCGTTCCGGACACTGAGCGCCTGATTTAGGGCCCTTCTCTAGGAT  
GCCCCAGCCCCCTACCCTAAGACCTATTGCCGGGGAGGATTCCACACTTCCGCTCCTTTGGGGATAAACCTATTAA  
TTATTGCTACTATCAAGAGGGCTGGGCATTCTCTGCTGGTAATTCCTGAAGAGGCATGACTGCTTTTCTCAGCCC  
CAAGCCTCTAGTCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGA  
GGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGA  
TCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCT  
AGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGC  
CTGGGTGTGTACGGAGGGTCTAGTCTGAGTGCGTGTGGGGACCTCAGAACACTGTGACCTTAGCCCAGCAAGCCA  
GGCCCTTCATGAAGGCCAAGAAGGCTGCCACCATTCCTGCCAGCCCAAGAACTCCAGCTTCCCCACTGCCTCTG  
TGTGCCCTTTGCGTCTGTGAAGGCCATTGAGAAATGCCAGTGTGCCCCCTGGGAAAGGGCACGGCCTGTGCT  
CCTGACACGGGCTGTGCTTGGCCACAGAACCACCCAGCGTCTCCCTGCTGCTGTCCACGTCAGTTCATGAGGCA  
ACGTCGCGTGGTCTCAGACGTGGAGCAGCCAGCGGCAGCTCAGAGCAGGGCACTGTGTCCGGCGGAGCCAAGTCC  
ACTCTGGGGGAGCTCTGGCGGGGACCACGGGCCACTGCTCACCCACTGGCCCCGAGGGGGGTGTAGACGCCAAGA  
CTCACGCATGTGTGACATCCGGAGTCTTGAGCCGGGTGTCCAGTGGCACCACTAGGTGCCTGCTGCCTCCACA  
GTGGGGTTCACACCCAGGGCTCCTTGGTCCCCACAACCTGCCCGGCCAGGCCTGCAGACCCAGACTCCAGCCA  
GACCTGCCTCACCCACCAATGCAGCCGGGGCTGGCGACACCAGCCAGGTGCTGGTCTTGGGCCAGTTCTCCACG  
ACGGCTCACCTCCCCTCCATCTGCGTTGATGCTCAGAATCGCCTACCTGTGCCTGCGTGTAACCACAGCCTCA  
GACCAGCTATGGGGAGAGGACAACACGGAGGATATCCAGCTTCCCCGGTCTGGGGTGAGGAATGTGGGGAGCTTG  
GGCATCCTCCTCCAGCCTCCTCCAGCCCCAGGCAGTGCCTTACCTGTGGTGCCAGAAAAGTGCCCCTAGGTTG  
GTGGGTCTACAGGAGCCTCAGCCAGGCAGCCACCCACCCCTGGGGCCCTGCCTCACCAAGGAAATAAAGACTCA

A

263/5332  
**FIGURE 237**

CCCCGCGCCGCGCAGCCCCGGCCGCCAGGCCCTTAGCCCCGCCCGGCCCGGCCAGGCCGCGTCCCCCTCCCCCTC  
CCCTCCCCCGCGGCCACCCGCGCCCGCCCCGCCCGGCCACCGCGGACCCACCCGGACCTCGGCGGGGAGATGGA  
GGTCTGGCGGCAGAGACCACGTCCCAGCAGGAGCGGCTGCAGGCCATCGCAGAGAAGCGGAAGCGGCAGGCCGA  
GATCGAGAACAAGCGCCGGCAGCTGGAGGACGAGCGGAGGCAGCTGCAGCACCTGAAGTCCAAGGCACTGCGGGA  
GCGCTGGCTGCTGGAGGGGACGCCGTCTCGGCCCTCAGAGGGGGATGAGGACCTGAGGAGGCAGATGCAGGACGA  
CGAGCAGAAAGACACGGCTGCTGGAGGACTCGGTGTCCAGGTTGGAGAAGGAAATTGAGGTGCTGGAGCGTGGAGA  
CTCCGCCCCAGCCACTGCCAAGGAGAACCGCGCGGCCCGAGCCAGTCCGGGCCCCAGCCCCGAGTCCAGCCAA  
GGAGGAGCGCAAGACAGAGGTGGTGATGAATTCACAGCAGACGCCGGTGGGCACGCCCAAAGACAAGCGAGTCTC  
CAACACGCCCCCTGAGGACGGTTGACGGCTCCCCCATGATGAAGGCAGCCATGTACTCGGTTGAGATCACTGTGGA  
GAAGGACAAGGTGACAGGGGAGACCAGGGTGCTGTCCAGCACCACGCTGCTCCCTCGGCAGCCGCTCCCTCTGGG  
CATCAAAGTCTACGAGGACGAGACCAAAGTGGTCCATGCTGTGGACGGCACCGCCGAGAACGGGATCCACCCCT  
GAGCTCCTCCGAGGTGGACGAATCATCCACAAAGCGGACGAGGTACGCTGAGCGAGGCAGGGTCCACGGCCGG  
GGCGGCAGAGACCCGGGGGGCTGTGGAGGGGGCAGCCCGGACCACGCCCTCCCGGCGGGAGATCACCGGTGTGCA  
GGCACAGCCAGGCGAGGCCACGTCCGGCCCGCCGGGGATCCAGCCCGGCCAGGAGCCCCCGGTCACAATGATCTT  
CATGGGTACCAGAACGTGGAGGATGAGGCCGAGACCAAGAAGGTGCTGGGCCCTTCAAGATACCATCACGGCGGA  
GCTGGTGGTCATCGAAGACGCGGCTGAGCCCAAGGAGCCTGCACCACCCAACGGCAGTGCTGCCGAGCCTCCAC  
GGAGGCCGCTCCAGGGAAGAGAATCAGGCGGGGGCCGAGGCCACCACCAGCGACCCCCAGGACCTCGACATGAA  
GAAGCACCGTTGTAAATGCTGCTCCATCATGTGAGCCGGCCCCCGAGACCCCGGCCCCACCCACACCACAGAC  
ACCCACCAGCCCGGCCCTCCCGGCGCCTGCCACCCTCCACCCACAGCCTCACGGGTCCAGGACTTGGCGTGTT  
GTTACATGTTCTTCCGAGTTTTCTTTTCGCTGGAAAGAGGGACAGGGGGCCCCACCCGTACCACGCCCAACAC  
TCCCCCGAACCAGAGCCGTGCACTTGTGCCTGGTAGGAGAGAGACAGGACAGACCCGCTTTTCCGAGACAAGG  
ACCCCCCATGTACGGCAGCTTCACAGACGCGGCTCGCGCCACCCGGGGTCTTGGCGGGTGGGACCCGACGCTC  
CACGCGGCCCAGGCCAGCCTGCCACCCTCTGGGCCTCTACCTGTGCCTTTCTCTGAGGGGACACCCGCCAGAG  
AGGGCCCCGGGAGCCGGGGGTGGGTACTGAGGCCTGCTCAGGCCCTGGAAGTGAGGCTCTATGGGGTTCCCTGGC  
CAAGGCGCTGGCCCCCAATCTCAGGCAGTTGGGGTGAAGCCGTGCCTCTTTGGGGGCTAAAGGTCTTGGGTGGA  
GGACAGGCCCTCTGCTGTGCCCTATGCCCTGTGTGGGCCCAACAGTGGAATGGAGTCTGGGGGAGGGGGA  
ACCCCGGGGACATGCCCCACCCGGGAGGGGCCGTAACCCCTGGGCTATCTTCTAGACGGGGCGAACCAGGGGT  
CATTGACCTGCCCCCTGCACAGGGCAGGGACCGAGTGAGCCACTCCTTGTCCCGAGCTCCCGCCCCCACTGGGCC  
CTCCTTCTCTGCTGCTAATTTGGGGACCCAGGGGCCGCCCCGGCCTCTTCTCCATCCTGCTTGGACCAGGG  
TCCTGGGTCTTCCCAACCATAACCCGAGATCAGGCCCCACCTGCCAGCTCTACTGGGCTTGGAGCACGTCCGGGC  
AGTGAGGGGAGGGACACAGCCTGGGACAGGAAGCCTCTTGGGTGGAGCAGGAGACCCCTCATTTGCCACCCAGAC  
CAATGTGAGCCTGCCCCAGCCCCCTCTCATTTGGAAGTGGAAGGGGCTTCCCTCCTGGGGGCAGCTACACTCGT  
CCCCAGAGGCACATTCTGTGCACATTCTCACAGACACCGTCTCACACGTTGGCTTTGGACAACCAGGCCCAACTT  
GGTCCCTGCCCTAGGGACCTCCAGCCTGGTGCCAGTGCTCAGGCCACCTCCTGGTCCAGTCACCACCTGCAGCC  
TCGGCAGGGCAGGTACAGGGGCCACCTCAGATGGGAGCCTGGGTCCCTGCCTCCGCTCTGCCCTGGGTGGCTGG  
GAGGAGAGGCCCTCTCGGGGGTGACCTGGGCGTCAGCCGTGGAACCCCTCCTCCTCCCTGGAGTCTGCCTGAGT  
CCCTCGAGCCGCGAGCCTTCGCTGAAGTGCCCTTGCTATAACCCCTCTGCTTCTGGTGTGTGACGAGGCCCCG  
ATGTTCTTGATTTTCCAGAGAAGCAAATAAACAGCGTGAACAGCCCC

264/5332

**FIGURE 238**

ATGCCCAGCTCTTCACCACCGCCCCACGTGCCCACCATGCCAGGCTTCGGTCCCCGCCATGCCCAGCTCTTCAC  
GCACCGCCCCACGGAATGCTGCTCACAGGACCCCTATACGGGTTTGAGGAGGTCAAGGCTCTGTGACCGTGATG  
GCCCGTCCGGGGCAGAGACCTCATGATGCGGGTGGCACAGAGCAGCTGCGTGTGGCGACAAACAGCCCACAATT  
CTCAAATGGCGGATCCTATCGGCCACCAACGATCTGGACCGTGTGTGCGCCGTGGCGCTGCCCAAGCTGCCCATC  
TCGCTCACCAACACCGACCTCAAGGTGGCCAGCGACACACAGTTCTACCCCTGGCCTCGGGCTGGCCCTGGCCTTC  
CACGACGGCAGCGTCCACATCGTGCACCGGCTCTCACTGCAGACCATGGCCGTCTTCTACAGCTCCGCGGCCCCG  
AGGCCITGTGGATGAGCCGGCCATGAAGCGCCCCCGCACCAGCGGGCCCCGCGTCCACTTAAAGGCTATGCAGCTA  
TCGTGGACGTCCTGCCCCCTGGTGGGGATTGACAGCCACGGGAAGCCAGGGGAAGGCGAGCTGCTGGGGCACGTG  
GGGCTGGGGCTGGTGGGCATTGACAACCAGGGGAAGGCGAGCTGCTGGGCATTGACAACCAGGGGAAGGCGAGCT  
GCTGGGGCACGTGGGGCTGGGGCTGGGGGAAGGCGAGCTGCTGGGCATTGACAACCAGGGGAAGGCGAGCTGCTGG  
GGCATGGCCCTGGTGGGCATTGACAACCAGGGGAAGCTGAGCGTGTCCGCTCTCACCTTCCATGGGCCACCCG  
CTGAGGTGGGGCTGGCGCTGCGGCACCTGCTCTTCTGCTGGAGTACTGCATGGTGACCGGCTACGACTGGTGG  
GACATCCTGCTGCACGTGCAGCCCAGAAGGAAGTGTGGACCAGCAGAATGAGGGGGCAACGCCAGGGGCAGCAC  
TGCCCGGCCACAGAGGACTGTGGCCCCACAGATGACACCCTCAGCTACCAGCTCCTGCATCTGGAAGATGACCAG  
GAGGAGGAAGGACGGTCTGCAAGTGTTCAAAGCCCATCAAACCAGAGCAAACCTGGTACCTGTGATACAGCCTCC  
ACTCCAGCCCCAGGGCCCAGCCCCAGGCCACCCGAGCCGGCTGCCGCTGACCCTGTGGTTCGGGCTGATCAAATTC  
TGCTTCCTCAGCGAGGCCTTCCTGACCCTCCCGGGCCCTTCCTGCCTTTCTCTCTGGCTGCGGCTGTTTCCTGCG  
GGGCTGGCTGCAGCTCCCGGCGGCGCCCTGTCTGTACCTGTTTCATGTCCATCGTCCGGCAACCCCTGGCTTCTA  
ACACAGCTCATTGCCCGCAGGACCTCCCGCAGGAGCAGGGACCCAGCTCAGAGTATCATTTTCAAATGGTAAC  
CAGCAAACCAACGTGATTCTCGCACAAAGGCAAGTCGGGATTGCTGTTCCGGGGCGAACAAGAACGGTCGGGG  
GTGACCCCGGATCATGGCGCGCCCGCAGTATCTGTGGCCACTGTGGAAACAGCCCTGGCGTGTCCGGGACGCGAC  
GCGGCCTTTCCCTCCCCGCGCGATCACCCAGATGTGAGCGCTCAGTTTGAATCGGACTTTTGGCCATGTGCCCA  
CAACCAACATGGAGCCCTGAGGGTTTCCTGCCCAGCTCCAAGATGGCGATGCGACTCCCTTTGCCCTCACGGCCC  
AGGCGGGCGGGTCTGCCCCTTGAAGATGGCGGCAGCCTGGGCAAGCACGCTTCCCGCCGCTGACTCGCCA  
CGTACCCACTCTCAAGATGGCGTCTCCCGCAAAGCCACGCGCCAGCTGACTGGCTCAGACGCCGTACAGTGA

265/5332  
**FIGURE 239**

TTGTGAGTCTATAACTCGGAGCCGTTGGGTGCGTTCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGGGGTCT  
GCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCT  
ACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAG  
TTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCACG  
GAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACCAG  
GCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGTGACCCCTGTGCTG  
CGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCGG  
GCCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGTG  
GACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGACC  
CTGGATGTGCTGCACCAGATTTTCTCCAAGTTCCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCAG  
TTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCAGCACGCCAAGCTGTGCTGGACGGGCAGAACATC  
TACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAG  
AGCCGTGACTACACACGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCC  
TTCGGTGCACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCACCTTTGCCATTCTCTCAA  
GCTGCAGGCCCTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCTCGGCGGCGGCGGCAGCT  
GCGGCGGCAGGTCGGATCGCCATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAAC  
CCAGAGAGAGTCAACCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTG  
TTCAATAAGAAGGAGAAGCCCTAGTGAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAAC  
GGGCACAAGCTGCACGGGAAGCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCCGAGGGC  
CAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAAC  
TTCCAGAACATATTCCC GCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTC  
AAGGTCTGTTTTTCCAGCAATGGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTG  
ATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCAC  
CACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAGGGGCACAGGCCCCACGGCCGGGCCCCCTGGCGACAAC  
TCCATCATTCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTAA  
AGAGAAATCAGTTTACCTGTTTTTAAAAAAATTAAATCTAGTTACCTTGCTCACCTGCGGTGACAGGGACAGC  
TCAGGCTCTTGGTGACTGTGGCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCT  
TGGTGGGGCCTGTGTGCGGCGTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGCTTCCCTGTGCCTTAAAA  
AACCTGCCTTCTGTCAGCCACACCCACCCGGGGTGTCTGGGGACCCAAGGGGTGGGGGGGTACACCAGAGA  
GAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCGGCTGCGACACCCCAACC  
CCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTCACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGGC  
TCCCCGCTGCTCCAGCTGCGGAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGCTGTGTC  
CTAGCAATATTTCCAGTTGACCAAATATTCTAATCTTTTTTCATTTATATGCAAAAGAAATAGTTTTAAGTAACT  
TTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAACTTCCTTGTGGTATTACCTTGATGCTGTTACTT  
TTATTTTATTCCTTGTAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCCGCCAGTGGGTCA  
GGCACAGGGAGCCCCGGTCTCTATCTTAGAGCCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTGCGCCCTCTGGCA  
TCGCCTCCGGTTGCCTTACACCACGCCTTCACCTGCAGTCGCCTAGAAAACCTTGCTCTCAAACCTTCAGGGTTTTT  
TCTTCCCTTCAAATTTTGGACCAAAGTCTCATTCTGTGTTTTGCTGCTGCTGATGCTGGGACCCGGAAGGCGGG  
CGCTCCTCCTGTCTTCTGTGCTCTTTCTACCGCCCCCGCGTCTGTCCCGGGGCTCTCCTAGGATCCCCCTT  
CCGTAAAAGCGTGTAACAAGGGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGCG  
CGGTTTTTTATGGTGACACAAATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCAC  
AGGGGACCCACGCACATTCCGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAACCGTTTGAG  
AAACTCCTCCCTTGTCTAGCCCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTT  
CGAATAAATCTTCTGTATCCTCGCTCCGTTCCGCCTT

266/5332  
**FIGURE 240**

GAGGAGACGCGCTTTGTGCTGGGCGCCGGCCGCGCCAGCCACGGCCTGCGGCGCCCGCGGCACCATCATCTCCAC  
CAAGGAGAAGAACAAGATCCCGAAGGACAGCATGACGCTTCTGCCCTGCTTCTACTTCGTGGAGCTGCCCATAGT  
GGCTTCTTCCATCGTATCCTTGTACTTCTGGAGCTGACCGACCTCTTCAAGCCGGCCAAGGTGGGCTTCCAGTG  
CTATGACCGCACTCTCTCCATGCCCTACGTGGAGACCAACGAGGAGCTCATCCCGCTGCTGATGCTGCTCAGCTT  
GGCCTTCGCGGGCCCTGCCGCCTCGATCATGGTGGCCGAGGGCATGTTGTACTGTCTGCAGTCCCGGCTGTGGGG  
CCGTGCCGGGGGGCCCGCCGGGGCGGAGGGCAGCATCAACGCCGGCGGCTGCAACTTCAACTCCTTCTGCGGCG  
TACGGTGCGGTTTGTGGGTGTCCACGTGTTGGCCTGTGTGCCACAGCCCTGGTGACGGACGTGATCCAGCTGGC  
CACGGGTTACCACACTCCCTTCTTCTCACCGTCTGCAAGCCCACTACACTCTCCTGGGCACGTCTGCGAGGT  
CAACCCCTACATCACGCAGGACATCTGCTCCGGCCACGACATCCACGCCATCCTGTCTGCACGGAAGACCTTCCC  
GTCCAGCACGCCACGCTGTACGCTTCGCGCGGCTCTATGTGTCGGTGAGTCCGGCCCTCACTGCCCTTCCCA  
GGCCCTCTTGCTGACCCGTGGGGAGCCCTCCCTGACCCCAACCCCATGCCCCAGATGTACTTCAACTCGGTCTAT  
CTCGGACACCACCAAGCTGCTGAAGCCCATCCTGGTCTTCGCCCTTGCCATCGCCGCGGGCGTATGCGGGCTCAC  
GCAGATCACGCAGTACCGCAGCCACCCTGTGGACGTGATGCCGGCTTCCTCATCGGGGCGGGCATCGCTGCCTA  
CCTGGCCTGCCACGCGGTGGGCAACTTCCAGGCCCCACCTGCAGAGAAGCCCGCGGCCCCCGGCCCAAGGA  
CGCGCTGCGGGCCCTGACGCAGCGGGGCCACGACTCGGTTTATCAGCAGAATAAGTCGGTGAGCACCGACGAGCT  
GGGGCCCCCAGGGCGGCTGGAGGGCGCGCCCCGGCCCCGTGGCCCGCGAGAAGACCTCGCTGGGCAGCCTGAAGCG  
CGCCAGCGTGAGCGTGACCTGCTGGCCCCGCGCAGCCCCATGGCCAAGGAGAACATGGTGACCTTCAGCCACAC  
GCTGCCCAGGGCCAGCGCGCCCTCGCTGGACGACCCCCGCGCGCCGCCACATGACCATCCACGTGCCGCTGGACGC  
CTCGCGCTCCAAGCAGCTCATCAGCGAGTGGAAGCAGAAGAGCCTGGAGGGCCGCGGCCTGGGGCTGCCCCGACGA  
CGCCAGCCCCGGGCACCTGCGCGCGCCCGCCGAACCCATGGCGGAGGAGGAGGAAGAGGAGGAGGACGAAGAGGA  
AGAGGAGGAGGAGGAAGAGGAGGAGGACGAGGGCCCGGCCCGCCCTCGCTCTACCCACCGTGACGGCGCGGCC  
GGGGCTGGGGCCTCGGGTCATCTCCACCGCGCGGGGGCCGCCGCGCTGGTGACATCCCGGAGGAGGGCGC  
GCAGACGGGGGCCGGCCTGTCCCCCAAAGCGGCGCCGGGGTGCGCGCCAAGTGCTCATGATGGCCGAGAAGAG  
CGGGGCGGCAGTGCCCAACCCTCCGCGGCTGCTGCAGGTCATCGCCATGTCCAAGGCTCCGGGCGCGCCGGGGCC  
CAAGGCGGCCGAGACGGCGTCTGTCAGCGCCAGCTCCGACTCCTCGCAGTACCGGTGCGCGTCCGACCGCGA  
CTCCGCCAGCATCGTGACCATCGACGCGCACGCGCCGACCAACCCCGTGGTGACCTGTGCGCGGCGGCGCGCC  
CTGGGAGTGGAAGGCGGCGGGCGGCGGGGCCAAGGCGGAGGCCGACGGCGGTACGAGCTGGGGGACCTGGCGCG  
CGGCTTCCGCGGCGGGGCCAAGCCCCGGGCGTGTCCCCGGCTCGTCGGTCAGCGACGTGGACAGGAGGAGCC  
GCGGTTCCGGGGCCGTGGCCACCGTCAACCTGGCCACGGGCGAGGGGCTGCCCCGCTGGGCGCGGCCGATGGGGC  
GCTGGGCCCCGGGACCGGGAGTCCACGCTGCGGCGCCACGCGGGCGGCTGGGGCTGGCGGAGCGCGAGGCGGA  
GGCGGAGGCCGAGGGCTACTTCCGCAAGATGCAGGCGCGCCGCTTCCCCGACTAGCGCGGCGGGGCCGGGGCGG  
GCGGGGGCGGGCCGAGGGCGCGGGCGGCCG



267/5332  
**FIGURE 241**

GCCCAGCTAATTTTTTATTTATTTGTAGAGATGGAGTCGCGCTACGTGGCCCATGCTGATCTCGAACTCCTGAGA  
TCCAATGATCCTCCCACCTCGGCCTCCCTTCTGCATATAGTAGGTGCTCAATAAAGACCAACCAGATGCAGGAG  
TGGATGACTTCATTGCTCGGGACTTTGTTGCTTGGGTGACCCTGACCTTCAGGCCCCGGCACCCCTAGGCCAGGAC  
GCTGTCGATCCAGGCCGCATAGCTCGCCACGCGGGTGTAGATCCCGGGCTTCTTGCGGTTGCCGCAAACGCGCGA  
GCCCAGAGGTGACCACGCCCTCGAGCACGCCCCCGCACACCAGCGGGCCCCGGAGTCACCCCTGCAGCTGTCCCG  
GCGATTGCTCTCCGCGCACATCAAGCGCTCGGTGATGGCGCCGTCGTGGTGCCTGCGCCGGTTGCAGGTGGCGCG  
GTCCAGCACTGGCAAGAGCACGTGCTGCAGGCTGTCCGGGCGGCGGCCCGCTGGTTGACTATGCCCCAGCCGGC  
CACGTCGCAGAGAGTTCCCGGTGCCACGTGCGGGTCCACGCGCTGCCAGGGCAGGGGGCGCACAGAGGGGCCAG  
TGTGGCCTTCTCCGACAGCTGTAGCAGCAGGAGGTCGTGGTTCGATGGTGTGCGGGCTGGCTGTCCGGGTGGGGCAC  
TGCGCGGAGCACGTGCTACAGGCGCTTGGAGGGCTCCGGCTGCGACAGGGAGTGCGCGCCCAGGAGAACCTGCAC  
CTTCCCGTCGGCCGCGTCTCCAGGCAGTGCGCCGCGCTCAGCACCCACTGCTCCGCCACCAGGACGCGCCGCGCA  
CAGGTGCGCGCCGTTAGCTGCACCGACGCCATGTAGGGCCGCGCGTGCGCCTCGGCCTCTCTGCCGCCCAGGAT  
CCGACCACGGGGCGGCGCCGC

268/5332  
**FIGURE 242**

ATGTGTGATTTGCGGCGGCCAGCGGCAGGTGGGATGATGGACTTGGCCTACGTCTGTGAGTGGGAGAAATGGTCC  
AAGAGCACCCACTGCCCATCGGTGCCCCCTGGCCTGCGCCTGGTCCTGCCGAAATCTCATCGCCTTCACCATGGAC  
CTGCGCAGCGATGACCAGGACCTGACCCGATGATCCACATCCTGGACACGGAGCACCCCTGGGACCTGCACTCG  
ATCCCCCTCAGAGCACCACGAGGCTATCACCTGCCTGGAGTGGGACCAGTCAGGCTCCCCGGCTCCTGTGAGCAGAT  
GCCGACGGGCAGATCAAGTGCTGGAGCATGGCGGACCACCTGGCTAATAGCTGGGAGAGCTCAGTGGGCAGCCTA  
GTGGAGGGGGACCCATTGTGGCCCTGTCCTGGCTGCACAATGGTGTGAACTGGCCCTGCACGTGGAGAAGTCG  
GGCGCCTCCAGCTTCGGGGAGAAGTTCTCCCGAGTCAAGTTCTACCGTCGCTCACGCTGTTCCGGCGGCAAGCCC  
ATGGAGGGCTGGATCGCGGTGACGGTCAGCGGCCCTGGTCACCGTGTCCCTGCTGAAGCCCAGCGGGCAGGTGCTG  
ACGTCCACCGAGAGCCTGTGCCGGCTGCGCGGCCGCGTGGCCCTGGCGACATCGCCTTCACCGGCGGCGGCAACA  
TCGTGGTGGCCACGGCGGACGGCAGCAGCGCGTCGCCCGTGCAGTTCTACAAGGTGTGCGTGAGCGTGGTGAGCG  
AGAAGTGCCGTATCGACACGGAGATCCTGCCCTCCCTGTTCTATGCGCTGCACCACCGACCTCAACCGCAAGGACA  
AGTTCCCCGCCATCACCCACCTCAAGTTCCCTGGCCCCGGGACATGTGCGGAGCAGGTGCTTTTGTGCGCGTCCAGCC  
AGACCAGCAGCATCGTGGAGTGTGTTCCCTGCGCAAGGAGGGACTCCCCGTGAACAACATCTTCCAGCAGATCT  
CCCCCGTGGTTGGCGACAAACAGCCCACAATTCTCAAATGGCGGATCCTATCGGCCACCAACGATCTGGACCGTG  
TGTGCGCCGTGGCGCTGCCCAAGCTGCCCCATCTCGCTCACCAACACCGACCTCAAGCTGAGCGTGTCCGCCTCT  
CACCTTCCATGGGCCACCCGCTGGAGGTGGGGCTGGCGCTGCGGCACCTGCTCTTCTGCTGGAGTACTGCATGG  
TGACCGGCTACGACTGGTGGGACATCCTGCTGCACGTGCAGCCCAGTATGGTACAGAGCCTGGTGGAGAAGCTGC  
ACGAGGAGTACACGCGCCAGACCGCTGCCCTGCAGCAGGTCTCTCCACCCGGATCCTGGCCATGAAGGCCTCGC  
TCTGCAAGCTGTGCGCCTGCACGGTGACTCGCGTGTGCGACTACCACACCAAGCTCTTCTCATCGCCATCAGCT  
CCACCCTGAAGTCGCTGCTGCGCCCCCACTTTCTCAACACGCCTGACAAGAGCCCCGGCGACCGGCTGACCGAGA  
TCTGCACCAAGATCACCGACGTGACATTGACAAGGTCATGATCAACCTCAAGACGGAGGAATTTGTGCTGGACA  
TGAACACACTGCAGGCGCTGCAGCAGCTCTTGCAGTGGGTGGGCGACTTCGTGCTGTACCTGCTGGCCAGCCTAC  
CCAACCAGGGTTCCCTGCTGAGGCCGGGCCACAGCTTTCTGCGGGACGGCACCTCGCTGGGCATGCTTCGGGAAT  
TGATGGTGGTCATCCGCATCTGGGGCCTTCTGAAGCCCAGCTGCCTGCCCGTGTATACGGCCACTTCGGATACCC  
AGGACAGCATGTCCCTGCTCTTCCGCCTGCTCACCAAGCTCTGGATCTGCTGTGCGGATGAGGGCCCAGCGAGCG  
AGCCGGACGAGGCGCTGGTGGATGAATGCTGCCTGCTGCCCAGCCAGCTGCTTATCCCCAGCCTGGACTGGCTGC  
CAGCCAGCGACGGCCTGGTCAGCCGCTGCAGCCCAAGCAGCCCCCTTCGTCTGCAGTTTGGCCGGGCGCCCACGC  
TGCCTGGCAGTGCTGCCACCCTGCAGCTCGACGGCCTCGCCAGGGCCCCAGGCCAGCCCAAGATCGACCACCTGC  
GGAGGCTGCACCTTGGCGCTTGCCCCACGGAGGAATGCAAGGCCTGCACCAGGTGCGGCTGTGTACCATGCTCA  
AGTCGCCCCAACAGAACCACGGCGGTGAAGCAGTGGGAGCAGCGCTGGATCAAGAACTGCCTGGCTGTTGAAGGCC  
GTGGGCCGGACGCCTGCGTGACCAGCAGAGCTTCTGAGGAAGCCCCCTGCCTTTGTCCAGCTGGGCCCCGAGTCCA  
CACACCACTCTCCCAGGACCCCCAGATCCCTGGACCATCTGCATCCAAAGGACCGTCCGTGA

269/5332  
**FIGURE 243**

GAAGGCCCTGCCGGGCGGCGGCGGCGGCGGACAGCGTGCAGGCATGGTTCGCGCTGGAGAACCCTGAGTGCGGCC  
GGAGGCGGCGGAGGGCACCCCGGGCGGGCGGCGGCTGCTGCCCTTCCAGCTGCCTGCCTGCCCTAGCCAGCTC  
CCAGGTGAAGAGACTCTCGGCTTCCAGGCGGAAACAGCACTTTCATCAACCAGGCAGTGCGGAACCTCAGACCTCGT  
GCCCAAGGCCAAGGGGCGGAAGAGCCTCCAGCGCCTGGAGAACACCCAGTACCTCCTGACCTGCTGGAGACAGA  
CGGGGGCCTGCCTGGCCTGGAGGATGGGGACTTGGCACCCCTGCATCACCAGGCATCTTTGCCGAGGCCTGCAA  
CAACGCCACCTATGTGGAGGTCTGGAACGATTTTCATGAACCGCTCCGGGGAGGAGCAGGAGCGGGTCTTTCGCTA  
CCTGGAGGATGAGGGCAGGAGCAAGGCGCGGAGGAGGGGCCCTGGCCGTGGGGAGGACCGGAGGAGAGAGGACCC  
CGCCTATACACCCCGCGAGTGCTTCCAGCGCATCAGCCGGCGTCTGCGAGCCGTCTCAAGCGCAGCCGCATCCC  
CATGGAACCGCTGGAGACCTGGGAGGAGCGGCTGCTTCGGTTCCTTCTCCGTGTCCCCCAGGCCGTGTACACAGC  
AATGCTAGACAACAGCTTTCGAGAGGCTTCTGCTGCACGCTGTCTGCCAGTACATGGACCTCATCTCAGCCAGTGC  
TGACCTGGAGGGGAAGCGGCAGATGAAGGTCAGTAATCGGCACCTGGATTTCCTGCCGCCGGGGCTGTCTCTGT  
CGCCTACCTGGAGCAGCACAGCTGATGGCGGCCCGCGGAGACCCCGCTGCCACCTCGCCAGCCATCAAGCCCT  
CCGATACCTTCGGCTAAAAATATCTTTTCATATTTTTAGAAATTTGTCTCGGAAACCTTTTTCGCTTGGGGTGGTCT  
CTCTCACTCTGCCCCCTCTCAGCAGCTCTTGGCAGTCAACAGACGCTGGCGGCTGGGGCTGCCATGCCATCC  
CAGCTCCAAGCTTCCCACTCCAGGACTTGTGTTTGGGTGGGGAGACCTGACCTGGGCATGTTCTGTCTTCTCAT  
CGTTGAGCTTTTTCTGGCCCGGTCTGAAGCTCAAGTGAGGAGGGGGAGGCTGGGTTTTTATCACTTTTAATGAATT  
TGGTGTGATTTGTTGTAGATTTTTAAATTTCCCTTTTGGAGAGAAAAACAAAAAACTCGCCCCACTGGTAAAA  
CATGGGTCTTGGTCCAGCCCTGCTCAGCCCTCCAGTTTTTAGCTTGAATGAGGGTGGGGTCTCTGGGACCC  
TGCCCTCATGCCAGAAGCATCTTGTGTTGTATATGTGTGCGCGCGTGTGCCCTGAGACCCAGGACAGAAGCCAC  
GGTCCTAAGAGCCGGTTTTATCTCTGTCATTCTGCGTGTCTCCCCACGCCACCTGTGTGCGGGCTCAGGGTCT  
CCTGCTTTATATGAGCCCCCTTCTTTCTCCCTCCTTTATGCTGGGGGTCCAGGACTTCCAGCCAGAAGCCTC  
TGCCCTTGCACTACCTTGTCTGTACCCCCATCCCGTGTCCCTCGTCCCCAGCCTGACTCCTGCCCTGATAGCTC  
CTGTGTCCCCATGCTGGTCTCTGCCCCAGGCTGCAGGAGCCAGGCTGGGGGGCCTCCGCACCCCTTGCTGCG  
TGTGGGTAATTGTGTTTTGGGGGAAAGTGGGGAATTTAATAAATTTCTGGTGCTC

[illegible]

271/5332  
**FIGURE 245**

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGAATCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG  
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT  
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC  
CAGCAGAAGATCATGTGCCCCGGGCCTGTACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCCTGGCAGGA  
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC  
GTCTCCTGCCTTCAGTTACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGTGTTTGG  
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC  
CCCATCACGGACCTGCACTGCGGCTTTGGGGGGCCCCCTGGCCCGGTGGCCACCTCCTCACTGGACCAGACGGTG  
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCTCTTTGACGTGTCCATCATGGCAGTGACCATG  
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTCGACCTCTTCACCTGGCCC  
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT  
TGCTGTGAGTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCCACGACGAGACCGTGCGCCTCTGGGACGTG  
CAGAGCAAGCAGTGATCCGGACGGTGGCCCTCAAAGGCCAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC  
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC  
GGGGACGAGCCGCGCCACGGGGGCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG  
GACCGCACGGAGCAGCTGCAGGCCGTCTGTGCAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG  
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTCGACTTCTCC  
ACGCGCTTCATCACGCGGCCGCGCCAAGTGAAGGCCGGAGACCCCGGCCCGAGGCGCCCAGGCCTGAGCCCCATGC  
CTCCCAGCAACCAGGGCCCCGCGGGTGTGGCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT  
CGGGTTTTTCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC  
AAAAGAGGATGAAAAGCC

272/5332  
**FIGURE 246**

GCTCTTGCCCGGCGTGGCGACTCGCTAGCGTCAGCAGCGCCGACGAGAAAGCGGAAGATGGCGGCGGC  
GGCCGGGAGGCCGTGAGGAGAGCGGCGGCTGCGAGGGCGGCCGATGGCGGCCGGGAGGCGCCCTCGGACACTTGC  
GGGTGCTTAGGGCGCGACGCTGGGAGGCATGTGCGAGCACGTGGAGCCCGCAGCTCCGGGGCCCGGGCCCAACGG  
CGGCGGCGGCGGCCCGGCCCGCGCGCGGGCCTCGCACCCCCAATCTCAACCCCAACCCCTCATCAACGTGCG  
CGACCGGCTCTTCCACGCGCTGTTCTTCAAGATGGCTGTACCTATTGCGGGCTCTTCCCGCCCGCTTCCGCCG  
TCTCTTCGAGTTCTTCGTGCTGCTCAAGGCCCTGTTTGTGCTCTTCGTCTTGGCCTACATCCACATCGTCTTCTC  
CCGCTCGCCCATCAACTGCCTGGAGCATGTGCGTGACAAGTGGCCGCGTGAGGGCATCCTGCGTGTGGAAGTGCG  
GCACAACCTCGAGCCGCGCGCCCGTCTTCTACAGTTCTGTGACAGCGGCGGCCGCGGGAGCTTCCCGGGCCTGGC  
CGTGGAACCAAGGCAGCAACCTGGACATGGAAGATGAGGAGGAGGAAGAGCTGACCATGGAGATGTTTGGGAACAG  
CTCCATCAAGTTTGTAGCTGGACATCGAGCCCAAGGTGTTCAAGCCGCCGAGTAGCACAGAGGCCCTGAATGACAG  
CCAGGAGTTCCCTTCCCGGAGACGCCACCAAAGTGTGGCCGAGGACGAGTACATCGTGGAGTACTACTAGA  
GTATGGCTTCTTCGCTGTGCGAGGCCACCCGCCAGCGCCTGAGCATCCCCGTCATGGTGGTCACCTGGGTGA  
GTCTGAGCTGCTGGGCTTGGGGAGCTCCATGGCGGGGCTCCCTTCTCCCTCGGGTCTCTCTGCTGGTGGCGG  
GACGGGGGGCTGTGCAAGCAACTGGGGTCTGCCCCGCCCGAGGCACGCTTCCCAGGGCTGGGGTCTTGGATGG  
GTTTCTTAAGAATGGGCAGGGCCAGGAAGCAGGCCAGGCCTCAGCAATGGAGCCAGCTGGGGCAGGGCCAGGGG  
GTGGCCTGGGCGGGGCTCCCGGCTCCCTGATTACCCACCCGAGACCCACGCGGGACCAAGTCTCGGGGACC  
GCTTCAGCCGCTGCTGCTGGATGAGTTCTTGGGCTACGATGACATCCTCATGTCCAGCGTGAAGGGCCTGGCCG  
AGAACGAGGAGAACAAGGGCTTCTGCGGAATGTGGTGTGCGGGCAGCACTACCGCTTGTGAGCATGTGGATGG  
CGCGGAGCTCTACCTGGCCGCTTCGCCATCATGGTCATCTTACGCTGAGCGTGTCCATGCTGCTGCGGTACT  
CACACCACAGATCTTCTGCTTTCATCGTGGACCTGCTGCAGATGCTGGAGATGAACATGGCCATCGCCTTCCCCG  
CAGCGCCCTGCTGACCGTCATCCTGGCCCTCGTCGGGATGGAGGCCATCATGTGCGAGTTCTTCAACGACACCA  
CCACCGCCTTCTACATCATCTCATCGTGTGGCTCGCGGACCAGTATGACGCCATCTGCTGCCACACCAGCACCA  
GCAAGCGGCATTGGCTGCGGTTCTTCTATCTTACCACTTCGCTTCTATGCCTATCACTACCGCTTCAATGGGC  
AGTATAGCAGCCTGGCCCTGGTCACCTCCTGGCTCTTATCCAGCATTCCATGATCTACTTCTTCCACCACTACG  
AGCTGCCTGCCATCCTGCGAGCAGGTCCGCATCCAGGAGATGCTGCTTACGGCGCCGCACTGGGCCCCGGGACCC  
CCACGGCGCTGCCCCGATGACATGAACAACAACCTCGGGCGCCCCGGCTACAGCCCTGACTCTGCCGGCCAGCCCC  
CCGCCCTGGGCCCCGTCTCGCCTGGGGCCAGCGGGAGTCCCGGGCTGTGGCAGCGGCGCCAGCTCCCTGGTGG  
CCGCGGCAGCCTCAGTGGCAGCAGCTGCCGGTGGTGACCTGGGTTGGATGGCAGAGACCGCTGCCATCATCACAG  
ACGCTCCTTCTGCTCGGCGCTGAGCGCTCCCTCCTGGAGCGGCGTCCAGCCAGCCCGCTGGGCCCCTGCTGGGG  
GCCTCCCCCAGCCCCCAGGACAGTGTCCCCCGAGTGACTCCGCAGCTTCTGACACAACCTCCCTGGGGGCTG  
CGGTAGGCGGGCCTAGCCCCGCTCCATGGCCCCAACGGAGGCGCCCTCGGAGGTGGGGTCTTGAAGCCGACAGC  
TGAGCCGCTCTGACCCCTGCTGGCTGGGCTGACCTTCCCGAGCCCGTGGGGGTGGGGGAGGCCAGCCACCTCC  
TTCTCTGGGACTGCCAGCCTGTGTGCGGGGCTTTCAGGGTTTCGTGGGGTTTGCCCGGAAGCGGGCTTCTCTC  
CCCCGGTGTGAGGTGCGCGCCGAGGCTTGTACCCGCTAGTGAGGTGTTTGGAGCTGGTCAGCAAGGAGAGGGGGT  
GGGGTTCCGCGGAAGGTTCTGGAGGGGTCTTGGTAGGTCTGCAGTGAACCGTCCTGAGGATGGAGTGGGGTCCCA  
TGGTGCAGGTCTCTGAGCAAGGCGGAGGTGTGGAGGAGAGGCCGGCTTGGGGTGGGGCCTCGCGCCCTAGTGCCG  
GCCGGCCTCAGCCCGGCTCTGCTGGTGTCCCTGCAGTGCCTTCTCCATGGCCCCGCCCTCCCGCGTGTGCGC  
CAGGCTTGGGGTCCCCGGGAGAGCAGAGCTTGCGCCTCGGGCATAGGGACGTGGGGTGCAGGCGCCAACATCAGT  
GGCAGCAGCCAGGGCCGTGGTCCAGTCCCACTCGGGGATGGAGTGGGCCGGCGGCCAAACAGTCACTCGGGGAG  
GAATGCGGAGGAGCGCTCATTCCATTCTATTTAATTGCAGTGTACAAAATTGTGTTTGTATATAGAATAAAGTGT  
CTGTTGACAGCGGC

273/5332

**FIGURE 247**

ATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT  
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCAACATCTAGGGGTAGTTGGG  
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCAACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC  
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCC GGCGGCACTCCAGGGCCGGCAGAC  
TGGAGGGAGAATTCTTGCTTCCCCGCTGGGCCATCTGCACCCTGCATTATAGAGCCCCCGTGCAGTGGGGTGG  
GCACCCTGCCGCACCCTGCATACAGCCGGCTTAA

274/5332  
**FIGURE 248**

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGCCTCT  
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAAGTATCTTATGCACACTCATGAACAAGCTACAGCCGG  
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTTCATCAAGGCCA  
TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG  
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA  
AGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGGCTGGCCAGTGCCTCATCGGGCTGCAGA  
TGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA  
ACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG  
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACCTCTCCA  
TGTCCTTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCGGGCAGATATATG  
ACCCCAAGTACTGCCCCGAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCCGACCCGGGGG  
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTAGGGCTCCCAGCACGCTCTCTCCCCACATC  
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTCTTAACCCGTTTCAGTGCTGC  
CAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGCCTTGATCCTTC  
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCGAGGGTCCCTGC  
TGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGTTTCTGCTTGCC  
TCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTTCTATGCCCGCAAGTTTCAGGAAGTATTACAAAA  
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCCTGGGAAA  
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGACTGGATTTGCCTAGGACCTTCAGACCAACAGA  
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAAATTCTGAGTTG  
TTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTTTCAGT  
TGTGGTTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCGGGGCTCAAGCGA  
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCCGGCTAATTTTTGTATTTTTAG  
TAGAGATGGGGTTTCCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCGCCTCCGC  
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGGCCAGCCCTCAGTAGGTTTTAAGGAGCCCCCAGCCC  
TCCTCCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAGTACTGCACAGG  
GACCCCCACCCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAATAAACCTCTG  
TTTGTACGAAG



275/5332  
FIGURE 249A

CGCCTCCCCGAAGCCTTTTCTGTGGGGGGAGGGCCCCGCCAGTGACGGCCGGGCTGTACGTGGGCCTGACAG  
CTGGGGAGGGGGTGGCCGGCGACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAG  
CCCCCCCCCTCGGGCTCCCGGCCGGGGCCCCATCATGTCTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTC  
CATCTCGAAAAAGAACC CGCGCGGAAGCCCCAGCCCCGAGCCCTCGGGGGAGCTGCCAGGAAGGATGGGGCTGA  
CGCGGTGTTCCCCGGACCAAGCCTGGAGCCGCCCGCTGGGTCTCCGGCGTCAAGGCCACAGGGACCCCTCAAGCG  
GCCACCAGCCTGAGCCGCCACGCCAGCGCGGCTGGCTTCCCCCTGTCTGGGTGCTGCCTCCTGGACACTGGGCCG  
GAGCCACCGGAGCCCACTGACAGCCGCCAGCCCCGGCGAGCTGCCACCAGGGTGCCGGCCCCGGACGTCGTCGA  
GGACATCTCCCATCTGCTGGCGGACGTGGCCCCGCTTCGCTGAGGGCCCTTGAGAACTTAAGGAGTGTGTGTTGCG  
TGACGACCTCCTTGAGGCCCGCCGCCCCGGGGCCACGAGTGCCCTGGGTGAGGCTCTGCGTGTTCATGCATCAGAT  
CATCTCCAAGTACCCGCTGCTGAACACCGTGGAGACGCTCACC CGAGCCGGCACCCCTCATTGCCAAGGTCAAAGC  
CTTCCATTATGAGAGCAACAATGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCTT  
CAGTAGCACAGTGTCCGAGTTCTCATGGGTGAAGTGGACAGCAGCACCCCTCCTAGCAGTGCCTCCTGGGGACTC  
GAGCCAGTCCATGGAAAGCCTGTATGGACCGGGCAGTGAGGGCACGCTCCAGCCTGGAAGACTGTGACGCCGG  
CTGCCTGCCCCGCCGAGGAGGTGGACGTGCTGTACAGCGCTGTGAGGGGGGGCTGGATGCCGCACTGCTGTATGC  
CAAGAACATGGCCAAGTACATGAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGC  
CAAGGGCCTGCAGAAGATCGCTCACAACCTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCAT  
CTACTCGCTGGCCCTGGAGCAGGACCTGGAGTTCCGGCCACAGCATGGTGCAGGCGGTGGGCACCTTGACAGCCCA  
GACCTTCATGCAGCCCCCTGACCCCTGCGGCGGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCA  
CCGTGCCCAGAGGAAGCTGCAAGAGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGA  
GGACCACGACAAGGCTCGCTTCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAG  
CACGGCCACCAAGACCCTGGACAAGCGGCGGCGGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGC  
CACCTACCGCACCTGCGTGGCCGACGCGAAGACGCGAGAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCG  
GCAGATCCAGGAGGTCAATCCGGCAGAGCGACCAAAACCATCAAGTCGGCCACGATCTCTACTACCAGATGATGCA  
TATGCAGACGGCGCCGCTGCCCGTGCACTTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCA  
GTACGCTTCCACGCTGCGCCAGCTGCAGCGGGACCAGGAGCCCGATGTGCACTACGACTTTGAGCCCCACGTCTC  
CGCCAACGCCTGGTCCCCCGTCATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCGGAGGC  
TGCCGGGAGCCCCCAGAAGAAGCGGGTGCACTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACA  
CCAGGTTACAAGTCATGGCCGCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGA  
CTTTAAGAAGTTTCGAGCGGACGTCAATCAGTGGTACCATGTCTGTCACGGAGGAGCTGGTGGACCCAGACGGTGG  
AGCCGGGGCTTCAGCCTTTGAGCAGGCTGACCTCAACGGCATGACCCCGAGCTGCCGGTGGCCGTGCCAGTGG  
ACCGTTCCGCCACGAGGGGCTGTCCAAGGCGGCCCGTACTCACGGCTCCGGAAGCTCCGCACGCCCCGCCAAGTG  
CCGCGAGTGCAACAGCTACGTCTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTGCTGGCCTGCCACAAGAAATG  
TCTGGAGACGCTGGCCATACAGTGGGGCACAAGAAGCTGCAAGGCCGCTGCAGCTGTTCCGGCCAGGACTTCAG  
CCACGCGGCCCGCAGCGCCCCGACGGCGTGCCCTTCATCGTCAAGAAGTGCCTCTGCGAGATCGAGCGGCGGGC  
GCTGCGCACCAAGGGCATCTACCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCGAGAA  
CGGCAAGGAGCTGGTCGAGCTGTGCGAGGCCTCGCCCCACGACATCAGCAACGTCTCAAGCTCTACCTGCGTCA  
GCTTCCCGAGCCGCTCATCTCCTTCCGCTCTACCACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGA  
GGCCGAGGCCAAGGCGGCGTCCCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCACTGGCGGTGGCCCTGGCAGG  
TCGGCTGCGGGAGCTCCTGCGGGACCTGCCGCTGAGAACC GGCCCTCGCTGCAGTACCTGCTGCGTCACCTACG  
CAGGATCGTGGAGGTGGAGCAGGACAACAAGATGACCCCCGGGAACCTGGGCATCGTGTTCGGGGCCACGCTGCT  
TCGGCCACGGCCACCAGAGGCCACCGTGTCCCTCTCCTCCCTGGTGGATTATCCCCATCAGGCCCGCGTCATCGA  
GACTCTCATCGTCCACTACGGCCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCGGGGGCCAGGACGAGTCATC  
CAACCAGCGAGCTGAGGTAGTCTGTCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGA  
GGCGGCGGCGGACGGGTGCAGAGAATCCCGAGTTGTGTCCAACGATTCGGACTCGGACCTAGAGGAGGCCCTCCGA  
GCTGCTGTCTCATCGGAGGCCAGTGCCCTGGGCCACCTCAGCTTCTGGAGCAGCAGCAGAGCGAGGCCAGCCT  
AGAGGTGGCTTCTGGCAGCCACAGCGGCAGTGAGGAGCAGCTGGAGGCCACAGCCCCGGGAGGACGGGGACGGGA  
CGAGGACGGCCCCGGCCAGCAGCTCTCAGGATTCAACACCAACCAGTCCAACAACGTGCTGCAGGCCCACTGCC  
CCCCATGAGGCTCCGTGGCGGGCGGATGACACTGGGCTCCTGCAGGGAAAGGCAGCCGGAATTCTGTGTGAGCTGG

276/5332  
**FIGURE 249B**

GGTGGGGCTGGGACCACAGGTGGCTTCTCTCTTGCCCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCAT  
AGCTTAGGTGCGCCGTCCTGGGGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCC  
CAGAGGCTTCCAGGAGCACGAGGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCCTGCACCCCGGCTCAGC  
TGAGCTGGGGAACTGCTGTGTCGTGTGAAGTCACAGTGGCCTTGTTGGTGCCACAGGGCTGTGTGGATGGAGGA  
AGCTGTCCCTGCCCAGTGCATCCCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCA  
CAGGTCTGTTGCAGGGACTCCAGAAACCATTCTGGGAGCCGTGGATGGGGGCGGAGCTGGGGTTTGGTGCAGTTT  
CCAGGGTGCAGTACAGCAGGGCCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGG  
GGCTCAGGTACACAGTGGGGTCTCTCGGAAGCCACCGTGTGGTTCTTTCACAGGCACGTTTATTTTGCTGAAATA  
AAAAGTTTTTAATCGGG

277/5332  
**FIGURE 250**

GGCGGCGGCGGCGGAGGCTGCC**ATG**GACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT  
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA  
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTCACCGTGCTGGTGGCCACAACGATGACCC  
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG  
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGACAGAGGGCATGACACCCTCCGCCAAGCAGTCCCT  
GGTCGACATGGCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA  
GCTAGTCCCTGAGCACGTGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA  
CCAGCTGCCCAGGATCCAGGCGGGGGACCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT  
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGAG**TAG**CTACCGCCTGACAGCCCCCTA  
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCCTGCCCTGCCAGAATCCGGCCCCCACAGCTC  
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCTGGGGTGAGGCTT  
CCTGTGGCCCAGCCCGCCCCATTACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG  
GGAGGTCACCTGGGGGCAGCTGGTGCCGGGTCTTACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG  
TCCGGGTCTCCACAGCCACTGCTTCCTCCTGGGCCCTCGGCCTTCCACCCCTCGTCTTCCCTCCCTCGGGGGC  
CCTGATGCGTGGCGGCCCCCGCCGGCCTCGGCTCTTTACTCCATTACAGCCATGCACGCGCTCAAGCCACCAG  
GGTGCAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA  
GCAAATAAATTTGCTTGATACAG

278/5332  
**FIGURE 251**

GGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCGCCG  
CGATGAGCCTCGGCCGCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCCTGG  
CCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACATCG  
ACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCAACACGTGGCCTCCCAGTGAGGCA  
AGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCCCGATACGCTGAGTGTGGTTTTCGGGATCCTGGCCT  
TCCCGTGTAACCAAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACAACG  
TCAAATTCGATATGTTTCAGCAAGATCTGCGTGAACGGGGACGACGCCACCCGCTGTGGAAGTGGATGAAGATCC  
AACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAATTACCAAGTTCCTCATCGACAAGAACGGCT  
GCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGCTCC  
ACAAGTGTGTGGCCCCGCCGAGCCCCCTGCCCACGCCCTTGAGCCTTCCACCGGCACTCATGACGGCCTGCCTG  
CAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCCGAGGAAGGTCCCATGGCCTGCTGGGCT  
TGGCTCGGCGCCCCCACCCTGGCTACCTTGTGGGAATAAACAGACAAATTAG

279/5332  
**FIGURE 252A**

GCCCGAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCCGGCCG  
GACCCGGGCCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC  
GGCCCCGGGTCTTGAGTCCCGCCGCTGCTGCCCGGCCGAGGACCCACCCCGCCTGCCGCCCCGATGCTTGACG  
TGGGGCCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCGCCGCGGGCAGCCTCCTGTACAGCCCGCCGC  
CCCTGCAGAGCGCCATGCTGCACTGCCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG  
ACAGCCGCCCCGTTTCATGAGCTCCGCTCCTTCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG  
CCACCGCCTCCAGCTTGCCACCAAGACCTGCGACTTGTCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA  
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTGCGACATCGTGGACACGCCCGACTTCTGCGGGCTGACAGCC  
TCAACCAGGTGTCCACCATCTGGGACGATAACCCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC  
CGTTTGACAGGCTTCGAGGACTTTCTGCCCTCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC  
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG  
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG  
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG  
CCATCACCTACGCTGCCAGCAACACGAGGTCTGTCTCCCGAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG  
GGGCGGGCGTGGGCAAAGGCCGACGGTGGCCGGAGTCATCTGGAGAACCACCTGCGCGGCCCGGAAGAAAGCAT  
TGTGGTTACGCTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG  
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG  
CCCTGATTGGGGAGAGCCAGGCCGGCGGCCAGCACCCGACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG  
CCTTCGAGGGCGTTCATCGTGTTCGACGAGTGTCAAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG  
TGCTAGACCTGCAGAAACAGCTGCCCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA  
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACCTTGAGGAGTCTCTGCACG  
CCATCGAGAAGAGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTCAGCGGCATGTACATCGCAC  
GCCAGCTCAGCTTCTCCGCGCTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGCCTCTACA  
ACCGCGCGGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC  
GCAAGTCCCTGTGGGGCCAGTTCTGGTGGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC  
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGCCTGGTTCATCGGGCTGCAGTCCACGGGCG  
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT  
TCCTGTGCTAATTCAGAAGCACTTTCCTGCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC  
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCAGACAGCGGGCGTTCATCCGCATCAGTGACG  
ACAGCAGCACGGAGTCGGACCCCTGGCCTGGACAGCGACTTCAACTCCTCCCCGAGTCCCTGGTGGATGACGACG  
TTGTTCATCGTTGATGAGTGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCCTCCTGCAGAGAGACCCGCATG  
GCCCCGGGGTCTTGAGCGGGTGGAGCGGCTGAAGCAGGATCTGTGGACAAAGTGCGGCGGCTGGGCCGGGAAC  
TGCCAGTCAACACCCTGGACGAGCTCATCGACCAGCTGGGCGGCCCCAGCGGGTGGCGGAGATGACCGGCAGGA  
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTGCAGGGCAGAGCAGGCTGTGTCCATCGACC  
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT  
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGGAGCTGCCGT  
GGAGCGCCGACCGCGCCATCCAGCAGTTCGGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT  
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTCGCCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCC  
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTGAGAACAAGTATGGCACCC  
GGGCCCTGCACTGTGTCTTACCACCATCTGAGCCAGACTGAGAACAAGTGCCTGTGCCCCAGGGATACCCTG  
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA  
ATGGCTGCCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCCTGAACCGCATCCTGGGGCTGGAGGTGCACA  
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAT  
ACGACATGGGCATCCTGGACCTTGCTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC  
CCGGGCACCCGAGGACGGGACGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT  
TTGCCAAGTGCCTGGCGCTGACGGGCCCCATGACGGCTTCTACCTCTCCTACAAGGTCCGCGGTAACAAGCCCA  
GCTGCCCTGCTGGCGGAGCAGAACCAGCGGCCAGTCTTTCACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC  
TGGAGGCCCTGGACAGCCTCCGCCGAAGTTCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

280/5332  
**FIGURE 252B**

GCTACGCTTTGTCGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG  
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG  
CCGCCGTCAATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC  
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA  
AGCGCAGGCAGGCGCCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCGCCCGCTGGCGCTGCCTTGCGGCCCCG  
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCGCACTTCTCTTTCCCGGCGC  
CGCTGTCCCTGGACGCCGGCCCCGGCGTCTGCGGCTGGGCACCCCCGACGCCAGGCCGACCCTGCGGCCCTCG  
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT  
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGGCGGGTGGTCCCGAGCGGCAGAGCGTGATCC  
AGTTCAGCCCACCCTTCCCCGGCGCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCCAAGACACAG  
GGACCGTTTCTCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG  
GCCCTGGCCGCACTGCCTTCAGCGCCCGACCCGGGCCCCCACCCTGGTCAGCCCTGGCGGGGCCCCACTCAGGACAG  
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT  
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG  
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC  
AATTCTCCCTCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCGCTCACCTCTCCAGGCCCCAGGCCGCGGA  
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA  
AT

281/5332  
**FIGURE 253**

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCAGTTCTGAGGCCCGGGTCCCACTGGAAC  
CGCGTCTGAGCCGCGTCCCGGACCCCGGTGCCCCGCGGTCCGCAGACCCTGCACCGGGCTTGGAATCGCAGCC  
GGGACTGACGTGTAGAACAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTGCTTT  
TTTTTTCTTTTTCTTTGTAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT  
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGCATGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA  
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTTCATCTACCAGC  
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG  
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA  
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCACCTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC  
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATATGGTGTATGGAGTACTGCGTGTGTGGCATGCAGG  
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTCTAGCTGATTGACG  
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGGTG  
GCACCCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTTCGCGGCGGACGACACCTGCCGGACCA  
GCCAGGGCTCCCCGGCTTTCCAGCCGCGCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA  
TCTGGTCCGGCTGGGGTCACCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT  
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG  
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC  
ATCCTCCGGCTGAAGCACCAGTGCCCATCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG  
TGCCGTACTTGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA  
CTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCTCCCCA  
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAAATCCAGGGCGGAGGGCCGGGCCCCCAACC  
CTGCCCCGAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTGCGCCTGCAAGCAGCAGTGGAGGCTGGCCGC  
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCCTGCCGGTTCCGCCCGCCCT  
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG  
GGGACAGCAGGGACCGGGCGCAGCCCTCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTTGACTTCGCAGC  
CCGGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCACCTTTATGTGGAGACTACTGGC  
CCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCAGCGCCGTCCGGCGGGCCCCGCCGAGACCAGCTGGCGGGTGT  
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTT  
GTGGTTCCATTTCTTTTTTTCTTTTTTTTTTTAAGAAAAATAAAAGGTGGATTG

282/5332  
**FIGURE 254**

GTCTCTCTCGCCCTCCAGGCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCCG  
CCGCTGCCATGCTGCCCCGCCGCGCTGCTCCGCCGCCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCCGTGCCTATG  
CCGAGGCCGCGCCGCCCCGGCTGCCGCCTCTGGCCCCAACCCAGATGTCCTTCACCTTCGCCTCTCCACGCAGG  
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCCC  
ACGTGCCCCACGCTGCAGGTCTGCGGCCGGGGCTGGTTCGTGGTGCATGCAGAGGACGGCACCACCTCCAAATACT  
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG  
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACCTTGGAGAAGGCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG  
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAGTAGGCGGTGCGTA  
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCAGCCAGCTCCTGGGGTCCCCGGCC  
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC  
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT  
CTCCTTCCGCCTCTCAAGATCCCCCAGCCTGACGGGCCGCTTACCATCCCCCTGCCCCTGCAGAGCCAGCCGCC  
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCAGCCCCCGCCCCATTAAAGACCCGGAAGCC  
TG



283/5332  
**FIGURE 255**

CAGCAGCGGGCGGCGCGCGGTGACATCGGCACCATCTGTGCAGATCCTGTAACGACCTCCTGAGCGCCACCCGGCA  
CTACCAGGGCATGCCCCCTTCGCTGGCCAGCTCCGCTGCCAGCCCCAGTGCTCCCCGGCCTCACCGGCCCCCGA  
CCTGGCCCCCAGAACTACCTCCTGCGAGAAGCTCACGGCTGCCCCCTCAGCCTCCCTGCTGCAGGGCCAGAGCCA  
GATCCGCATGTGCAAGCCCCCGGGGACCGGCTTCGGCAGACAGAAAACCGCGCCACGCGCTGCAAGGTGGAACG  
GCTGCAGCTGCTTCTGCAGCAGAAACGGCTCCGTAGAAAGSCCGCGGGACGCGCGGGGTCCGTACCACTGGTC  
ACCCAGCCGCAAGGCCGCGCGCAGCGACAGCAGTAGCAGCGGGGGCGGCGGCAGCCCCAGCGAGGCCTCCGGCTT  
GGGCCTCGACTTCGAGGACTCCGTGTGGAAGCCAGAAGTCAACCCTGACATCAAGTCAGAGTTCTGTGGTGGCTTA  
GGATCTTCGGATCGGCCACCCTCGCCCTCGCACCCAGCCAGGGCGGCGGGGACTCCGAGAGCCCCGGAGAGA  
ACGTGGCCAGCCCTGGAGGGCAGGCGGCCACTCCCCAGCCAGAAGTCTTTTTTCTTTTCTTTTCTTTTATTA  
TTTTTTCTTTTTTAAAAAGTTCTGACCGTGGTTTCTTGACTCTTCAATGGGCTTTGCTTCTTACCTCCTTCAC  
CCTTCACTCCTGCCCTCCTCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTTTTACCTCTGCGCCAGGTCCGT  
CCTCCCTGCCAACCTTCCCCAGCTCCAATATGTAGCAGTCTCTCTGGATGGCGGAGAGTGAAGGAGACGGAGAAA  
CGCGCCCCATCCCTTCCGCCGCCCTCTTTCCCCCCCAGCCCTATTAGGTTTTAAGTCAAAAATGTGATATGTC  
ATTATGCACTTTACAGATGAGGGGAGGGGCGCAGTGCGCAGAACCACCCACCCCCAGTGCAGACTTCGGGG  
TCTCCACCCAGGCCAGCAGCGCCCACTGGGCTACAGCAAGCCAACAGGTCACAGAAGCCAACGAGGGGACTGTT  
TCTCTTCCACTCCTATCCTCTTTTCTTGATCTTTTTTTTGATTTTCTTTCATTTCTTTAACAAGGAGAGCAAAG  
CTGTTTTTAGCAGAGGCTGGGGCTGAGGTCCCATGGGGTTTGGGTGCAGGGGCATGGCACCCCTTTCTGTGCGGA  
AGGGAGAGGGGAACTACCCCCCAGCCTGCCCTCCGCCCGCCCCAGCCGGCGGACTGTGCTGTTTTCTCCGCC  
CCACTCCCGTGTTTTCTGACCTCCTGCCTGAGTTTGGGGTATTTATAGACTATTAATTTTCTGACTGAGCCAATA  
GTGGTTGGGGAACTCTTGAAAAAGGGGAGAGAAATGGCTGGGTGCTGGGGAGTTCCCCCTCCGAGCCCTCCTTCC  
CGGCCCAACCTGAGGGATGTGGATTGGGACTGTCTGGGGGCCCTCCTGCAGCGAGGATGGGAGGGGGTGTGA  
GCTGTGAATCCCTTGGGCAGGGGGCGCAACTCCGTGTAGCATTAACCCCGTGGCGGGGTCCGCTGCTGGTCTA  
ATTTGGACCCCTGCCTCTCAGTGCCCCCTGCCCTAGGGGTGTCTGTCTCCAGAGGGGAGGGACAAATCCCTACT  
GGGGCCATTTCAATGGGGTAGTTTTTGGATTTTTTTTCCCACTCACTTTTTATTTTTTAATGATAATGGAGATGT  
CTGGACCCTTCCCTCACCCACCTGTGCGGTCTTGTCTGGCTCTGCCTGTCCCCACCGTTGTTCTCGTAGGTGAA  
CCCCAGGTCTCAACTCCCCCCCCTTTATGTGTTGAAAGTTAATGGTTTCAGATGTGAACATCACGTGTTATAACT  
GTAGCGCTGTAAATTTTTTTTGTTGGGAGGGTGGGCAGGGAGGGGTCCAGAGGGTAGAGCTCAAGGATTTTGGGTT  
TTGTTTTGTTTTTCATTTTTCCAAAAAAGAAAAAATAGAAAAAAGGAGTAAAAGGGGCGGGTTTGT  
TTTTGAAGAACTGTCTTGATACCTATTTAAATGTGTGTTCTGTTTTGTTTTTAAACGATTTTAAATAACGTCT  
GTGCCTCCACTGGTTGAGGGTGAACCTCCAGGCAGGAACCGGCTCGCCACCCTCTGCCCGGTAAGGGCTGCCCA  
AGAAAGCATTACCCGCCCTCGGGGGTCTGGGCTGTGGGGTCCCGGCACCTGGCGTGAGTTTCATGTATGAAAC  
ATAAAATTGAAAAAATAAAAAAACCTACACGAGCACCGTGATTTCAAGTAATAAACAGAAAATGAAACAC

284/5332  
**FIGURE 256**

GAGGCTCGGGTCGTTGTGGTIGCGCTGTCTTCCCGCTTGCGTCAGGGACCTGCCCGACTCAGTGGCCGCCATGGCA  
TCAGATGAAGGCAAACCTTTTTGTTGGAGGGCTGAGTTTTGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA  
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTC  
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC  
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC  
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG  
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGT  
GACCGGAGCTCGGGCGGGTCCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCCTTCCTG  
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG  
CACCTCCTTGATTCCCACTTTCGTAGTCATTTTCGGTTCGTATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC  
CGGGATGGCCTCGTTACTAGACTTTTCTTTTAAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAACATTTTGA  
AAAGCATTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT  
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC  
TGAGATCGAACGGACTGTGAATCCGCTCTTTGTGCGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACCTCCGTGTGA  
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCGTCGTCCA  
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT  
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTTGCAGTGGCTGAGGAATTCTTGTACGCAGTTTT  
CTTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG

285/5332  
**FIGURE 257**

CAGCGGAGGCGATACGGCCTCCTCGCCAACACTGAGGACCCACGGAGGCGGCCCTTCCAGCAGCCATGAGGGAA  
GGACAGGAGATGGGGCCCACCCAGTGCCCAAGCAACCCCTGCTCCACCGCTCATTCCCCTGCTGGCCCCGGGGC  
TGGTCTCACCAGTGCCAACCCGAGAGCTCCTTTTGGAACCTGCACAGCCCGCCGACCTGTTGCCACCTGCACCC  
ACCGCTGGACCATGCAGCCTCGCCTCCTGGATGCTGTCCAGCCTGGCCGAGGGTCCCAGGTGAAGACTGGAGGG  
ACCCCAACAGCCACCGCCAGGACGCTGAGGCTCCCTTGCTGACTGTGACTTGTGCCTCTCTCCTGCCCCCGTG  
GGGACATGGCAGCCAGAGCCAAGGCTGGGTGGGCAGGTGACCCAAGGAACCTTTCTGGGAACACCTTCTCGCCG  
GGCTGGGAACAATAATGCAGCCATGTCTCTGC

286/5332  
**FIGURE 258A**

CGGGTGGCGGAGGCGGACACATTGGCGTGAGACCTGGGAGTACGTTGTGCCAAATCATTGCCACTTGCCACATGA  
GTGTAAATGATGGCGGATGCCAAGTATGTCTCTGCCGATGGGAAAAGCGATTATGGCCTGCGAAGGTTTTGGCC  
CGAACCGCGACTTCAACAAAAATAAGAGAAGAAAGGAATATTTTCTAGCTGTGCAAATCCTCTCTCTAGAGGAA  
AAAATTAAGGTGAAAAGCACTGAAGTTGAGATCCTAGAGAAGTCTCAAATTGAAGCCATTGCTTCCTCGTTAGCC  
TCACAGAATGAGGTTCTGCGGCACCCCTGGAAGAACTGGCCTACAGACGGTCGCTTCGCGTGGCTCTGGACGTT  
CTGAGCGAGGGCTCGATTTGGAGTCAAGAAAGCTCTGCAGGGACAGGTAGAGCTGACCGGTCTCTGCGAGGGAAG  
CCCATGGAGCATGTCTCCTCGCCCTGTGATTGCAACTCCTCATCTCTTCCCGCGGAGACGTGTTGGGCAGTTCC  
AGACCTCACAGGAGGAGGCCATGTGTGCAACAAAGCCTGTCAAGTTCGTTCACTTGTGAAAAGGACCCCGAGTGC  
AAAGTGGACCACAAGAAGGGGCTCAGGAAAAGTGAAAACCAAGAGGCCCGTTGGTCCTCCAGCTGGAGGTGGT  
GCCCCAAGATGAGAGTGGGTCCAGAATCCACCACAAAATTGGACTCTTGCAAGTAAGAGGGGAGGAAACTCAGCG  
CAGAAGGCTAGCTTGTGCCTGAATGGATCTTCCCTTTAGAGGACGACACGGAGAGAGACATGGGGAGCAAAGGA  
GGCAGCTGGGCAGCCCCGTCTTGCCTCCGGGGTCAGGGAGGACGATCCCTGTGCCAACGCTGAGGGACACGAC  
CCCGGTCTGCCGTGGGCAGCCTCACTGCGCCCCAGCCCCCTGAGCCCTCGGCCTGCTCAGAGCCTGGAGAATGC  
CCTGCGAAAAAGAGGCCGCGCCTGGATGGCAGCCAAAGGCCGCTGCCGTGCAGCTGGAGCCCATGGCAGCAGGG  
GCCGCACCATCCCCGGGGCCGGGGCCAGGGCCCAGAGAGTCTGTGACCCCGCGCAGCACCGCCAGGCTGGGCCCCG  
CCTCCCTCCCACGCCTCTGCGGATGCAACCAGATGTCTTCTTGCCTCGGATTCCCAGAAGCTGGAGAAAGAGTGC  
CAGTCTTCCGAAGAGTCCATGGGGTCTAATTCCATGCGTTCTATCCTGGAGGAAGACGAGGAAGACGAGGAGCCA  
CCAAGAGTCTTTTATACCACGAACCACGTTTCGTTTGAAGTAGGAATGCTAGTCTGGCATAAACATAAAAAATAC  
CCCTTCTGGCCAGCAGTGGTCAAAGCGTCAGGCAGAGAGATAAGAAAGCAAGTGTGCTATACATCGAAGGACAC  
ATGAACCCGAAAATGAAAGGTTTCACAGTGTCTCTTAAAAGTTTAAAGCACTTTGATTGTAAAGAGAAACAGACG  
CTTCTGAATCAAGCCAGGGAGGACTTCAACCAGGACATCGGCTGGTGTGTCTCCCTCATCACCAGCTACAGGGTC  
CGGTTAGGCTGCGGGTCTTTTGTGGCTCTTTCTGGAATATTACGCGGCTGATATAAGCTATCCTGTCCGAAAA  
TCCATCCAGCAGGACGTTTGGGGACCAAGCTTCTCAACTGAGCAAGGGGAGCCCCGAGGAGCCCGTGGTGGGG  
TGCCCCCTGGGGCAGAGGCAGCCCTGCCGGAATGCTCCCCGACCGCTCGCGGGCCCGCCGGGACCGGGCCAAC  
CAGAAGCTGGTGGAGTACATTGTGAAGGCCAAGGGCGCGGAGAGCCACCTGCGGGCCATCCTAAAGAGCAGGAAG  
CCATCTCGCTGGCTGCAGACCTTCTGAGCTCCAGCCAGTACGTGACCTGTGTGGAGACCTACCTGGAGGATGAG  
GGGCAGCTGGACCTGGTGGTGAAGTACCTGCAGGGCGTCTACCAGGAGGTGGGGGCCAAGGTGCTCCAGCGCACC  
AACGGCGACCGGATCCGTTTCTTCTGACGTGCTTCTGCCCGAGGCCATCATCTGTGCGATCTCTGCGGTGGAC  
GAGGTGGACTACAAGACGGCTGAGGAGAAGTACATCAAGGGGCCTTCGCTGAGCTACCGGGAAAAAGAAATATTT  
GACAACCAGCTCCTTGAAGAGCGGAACCGCGCCGTCGGTGAAGGAGCAGCCGCTGTGCTGTGCTGCTGCTGCTG  
GCGGTGGAAGCGCCTCCAGTGTGCATGAGCGTGTCTGAAGATGGGGGGCTCAGGGGGCACGTTTGCCTTGGACC  
TGTCTGTGCTTCTCCTGCGTGGCAGTCTGATTTCCATGCTTCTGGAGAATCCATTTTCGTTAACTGAAAGCC  
AGTCTCTTTTTCTGCGAGTTTTTTTTTCAATTTTATTTTTGGCATTTTTTACAAGATAACGTTTCGGGAAAGGCTTTT  
GAAAGGACGGAAGCGTATTCAGTGTGCGCCAGTACTCCTGGCTGTGCTGTGGTTTCTCCCGACGTGCACATCGAT  
CTCGTATGTGTGGCATCTGATATTAAACGGGAGGTTTTTAAGAAGCGTCTGCCGTGATCATGGAGCTTCGGAAGCG  
GGAATGGTTCTTCCGGGTTTGTCTGTTTTGTCTGTTTTCCCTTGTGTGGTTTCCGCTGCGACAGTTCCAGAATT  
TGCTCTCCCACTCAGTGTGCTCTGCAGCTGTGAGGAAACAGCCTTCGTTAGAGGCGGGAGCAGAGACGAGCCGCT  
GCTCTGTGTGCTGTTTGTCTGTGGCCGACGGGAGAGGAGCAGGACACGCACCTTTCCAGGGGCTCTGTGTCCCGC  
ACTGTGTGTGAGTGGACCGCAGCGCGCAGCCACATGCCCTGGCTGCCATGGGCCAGACCGCTCCACCTCCCCCG  
CCCGCTGGCCTGTCTGAGTGCATTTCCCTGCACTGTGTGCTCACTGCACAGCCAGTACCGCGGTCTCAGTCA  
TCGGCGCGGATGGCTATGCTGGGGTCCCAGGGTGGCCGACAGTCAAGGTCAGTGTGGGAGCCCTGGGGTGGAG  
TGACAAACCGCATTTGCTCTGTGCCCGCCATGGCAGAAGCGCAGCCTTTGTATGGAGGCCAACCAGCGCTCCCGTC  
TGGAGAAGCGGCTTCCGGGGTGTGGCTGCCGGTTCGGCTCTGGTCCACAGCAGGTGCCGGGGCTGCAGGTTGTT  
GAGGGCTGTGACTCCGTGGGGCTCAGCCAGGCTCCAGCAGGGTCAGACGTGCTGTTAAGAGCAAAGCCACAGACG  
ATGACTTGTCCATTCTCAGTGGATGCTCCAGGCTGTGCCTACACAGCAGTGTGGTGACATGTCCAGGGTTCCAG  
GGCCCGGTGGCCTGGGAGCTGCTTTCTCCCCACTGGCTGGGCTGCATCTGGCCCTGGCTGGAGGCCCTTGCTTTGA  
GGGGCTGTGACCTCTTCCCCCAGGCCCTCCCCAGCCGACGACAGCCACCGGAGAGGAGATCGGAACACGATTGT  
CTCAGATGCAGGGCGCTGTGCGGGACGAAGCCGCAAGGACTCTCGTATCGGGCCCTTGGGACTCGGGAGGTGCCA

287/5332  
**FIGURE 258B**

GAGGCGGCGGCTGCTCTGGACCTCGGTGTTCACTGACCTTTGTTTCACTTGCCTCTGCTCGACTCCGAGAGCAGG  
AAACCCGGCCGTGGCCTGGCAGCTCCGCCTCCCATGCCCGCACGCTGGGGTCTGTCTTGTCTGGAGCAGTGGGGC  
ACACCCGGAGGAGGCGGGGGTCAGGGCTGTCGGCCTTGCGCCCCCTGCTGGTCGCTGTTTCGGGGACTCGGGGCG  
GCCAGTACCACCGCCTGAGGCGGGGCTCAGCAGCGTTGCATGTACGGGCCTCGTACTGCCTCATGGAAAATCCTC  
CGGAGCCGCCCTCCATTGTGGGTTCTGAGAGTAGGACACATTGCCATGGTTTTGTGGGAATCACGCGCCCTGA  
TGGAACTTTTCTGCTGTTGTGAAGTACTTTTATCCATTGCTTCTCTGCTGACCTTGCCAAGTTGTTGAGGTGG  
AATTAAACACCTCCCAGACC

288/5332  
**FIGURE 259**

CTGCGCGCTGCGGTCCACTCACACACAGTGCGGGACACAGAGGCCCTGGAAAGAGCACACTGAGTGGGAGAGCA  
AATTCTGGAAGTGTGCGAGGCGGAAACCACACAAGGGGGAAACAGACAAAACAGCAAACCCGGAAGAACCATTCC  
CGCTTCCGAAGCTCCATGATCACGGCAGACGCTTCTTAAACCTCCCGTTTAATATCAGATGCCACACATACGAG  
ATCGATGTGCACGTGCGGAGAAACCACAGCACAGCCAGGAGTACTGGCGCACAGTGAATACGCTTCCGTCCTTTT  
AAAAGCCTTTCCCGAACGGTATCTTGTAATAAATGCCAAAAATAAATGAAAAAACTGCCAGGAAAAAGAGAACT  
GGCTTTCAGTGTTAACGAAATGGATTCTCCAGAAGCATGGAAATCAGGACTGCCACGCAGGAGAACGCACAGACA  
GGTCCAAACGCAAACGTGCCCCCTGAGCCCCCATCTTCAGACACGCTCATGCACACTGGAGGCGCTTCCACCGC  
CAGGCCCCGCTGACAGCACAGCCGGCTGCTCCCTCACTGGCTTGTTATTTTGAGCATGTCCCCGGCGTGATGAAA  
TCACGGCCTGTGTGCTCAGCCCAAGTAACTTCTCCATCAGCACCAGCACCATTCTCACAGGTCACGGGAGGCTTT  
CATGGCAACTGGAAGCTGTGATGAACTCCTAACGGGTTTTGATGTGCGCAACCCAGACTCAAAAAAAAAAATCAG  
GATGAAAGATTTCCACAGATGGGCGTGAGCGGTGAAGAGGCTTCTGAGACGGAGGGAGAGGACAAACCAGCAGG  
CTGGGTCCAGGTGTCTGGCTCCGACCTTACCCCTCCCGGACCTCACTTATTCTTACGGCAAGCATGACGGGG  
GAACCATGAAGATCCAGCAGGAAAAACCCAGTTTCTGTATCCAAAGGCCTTTCCTGTTTTGGTAAGCCAGCTGG  
GCCAACACTCCCTAAACAAGGCCAAATTCCACCTTTGTGCAGCTCTGCGGGGGTGGCCTGCCAATGCCACCGAGG  
CCCCACACCTCCTCCCTGGCCTCTCCAGGGGGCCCTCCTGCCCTGCCAGGGAGGACATGGGGCTGGTGAGGGAG  
TTCAGTGTCTTCACCAGGAGTCTCCTGTGACTGTGGGCCCCGGGAGACGTGCGTGGCTGCGCAAGCCACCTGGCC  
GGAGACCTGTCTCTTGAATCTAGTTGAGTCTTCAGCCTGTCACTGCCCGTGGGCCCCGCCTGGCTCCAGCAAG  
GCCTGGCCGCATGCCAGAGACAGGATTAGGCGCTCTGGGGGCCAAACATCCAAGGGCAGCTAAGCACACGGATG  
TGAGAGAAACATCTTGATCACAGCATTCTTCTGGCTGCTGGAAAGCACCAGGCGCTGCTGCTGCTTAATCTTGCT  
GTATTTCTCACACAGCCATGGGGCTGTGGAAAGAGGGGAGGAAAGTGCAAAAAGCAAACATCAGCCCCTGCAAAA  
AGAGATTAAGAACAGACACGGCCAGGCACGTGCCCGTGGCCCCGTGCTGCCACAGCGACCAGCTGGGAGACCC  
GGGCACAGCCTTCTGGGGGGCAGGAGTGACCCACAGGGTGAGTTCAGCGTATGTGATCAGCTCACCACCCAGCA  
CCTGGGCCACCTCATGAGGGAGAGGGGCTGCGGCAGCCTGGAGTCAAACCTGCCTGTGGGTGTGGAAATAGAACT  
GCAAGGCAGAGACGCAAGTGGCTGGAGATAGCGCCGGGAGCGGCCTACCGGTAGCTCAGCGAAGGCCCTTGATG  
TACTTCTCCTCAGCCGTCTTGTAAGTCCACCTCGTCCACCGCAGAGATCGCACAGATGATGGCCTGTGAGAGGGCA  
CGGGGCTCAATAGCAGCAGGCACTGCCCAACTGGCCCCAAGTGGCCTGCGGTTAAGAAGGCCGAGGGAGCCTGG  
GTCACCAGGTTCCAGCCTCCAGACATGGTCTAGCTCATGGTTCAGAAGGTGCAAACCTAGTCCATGAATCCCTGC  
TTGTAATGATGTTTCTTAATTAAATCAGTACTATCTTTCGGACTAGACACAATAGCTCAGATCACTAAAAGCAGA  
GAAGAAAAGGCAAGACCCAAACCCACAAGAGCATTCTCAAAAATTTTAAGTTTTTTTTTTGGTGCGGTTTTTTT  
CTGGTACAGAGTCTCGCCCTGTGCCCCAGGCTGGAGCGCAATGGCATAATCTCAGCTCACTGCAACCTCTGCCTC  
CCGGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGTACGCGCCACCACGCCAGCTA  
ATTTTTGTATTTTTAGTAGAAACGGGGTTTACCATGTTGGCCAGGCTGGTCTCAAGCTCCTGGCCTCATGATCC  
ACCTGCCTCGGCCTCCCAAAGTGCTGGAATTACCGATGCGAGCCACCACACCCGGCCTTAAGTTTATTGTTATAA  
AAAAAAAAGAGTATCCTGAATACACAATACATACCTGACATTAAGAAATCATCCCTATTTTTTACTTTTGTGATT  
ATGGTAAACACATTTTTTAACAGAGTCCATTCCGTTTCAGAGCAGAGTCTCTCCACTCGGCCCTGTGGACGTGCGG  
GCCAGACTGTTCTCTGAGGTGGGGCTGTCTAGGCGCTGCAGGGTGTGAGCAGCGTCCCTGCCCAACCC

289/5332  
**FIGURE 260**

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCCG  
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG  
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTAIGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG  
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC  
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG  
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT  
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCTACTCGGTGGTGAGGGGCTGCGACCGCATCG  
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA  
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCGCCGCCGCCGCCGAGCCTGT  
CGCCGTCCGTGTCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCC

290/5332  
**FIGURE 261**

CCCCGGCCCCACAAGCCCCTGCAGGGAGCGGGCCCCGGGCGCGCGATCGAGGTCGGGTCGCCGTCCAGCCTGCA  
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGGCGCCCG  
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA  
TGCACGCGCTGGCCGCCGCCGCTCCTCCAAAGGGGGCCGGGTCTGGAGGTGGGCTTTGGCATGGCCATCGCAG  
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC  
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC  
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA  
ACTTCATCAAGAACCACGCCTTTGCGCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG  
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCCGCGCTGCTGGAGG  
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACGGCCGACTGCCGCTACTACGCCT  
TCCCACAGATGATCACGCCCCTGGTGACCAAAGGCTGAGCCCCCACC CGCCCGGCCACACCCATGCCCTCCTC  
CGTGCCTTCCTGGCCGGGAGTCCAGGGTGTGCGACCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT  
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCCAGCT  
TCTCTGTGAGGGTCACTGCTGCCCCTGCAGGGTCCCTGAGGTGAAGTAAACGCCGCGCTGGGCTTGGCCAGTC  
GGCAGTGA



291/5332  
**FIGURE 262**

GGAAGCTCTTCGTGGGCGGTCTTGACTGGAGCACGACCCAAGAGACTCTGCGCAGCTACTTTTCCCAATATGGAG  
AAGTCGTAGATTGTGTTATCATGAAAGATAAAAACCACCAACCAGTCTCGAGGCTTTGGGTTTGTCAAATTTAAAG  
ACCCAAACTGTGTGGGGACGGTGCTGGCCAGCAGACCGCACACGCTAGATGGCCGAAACATCGACCCCAAGCCAT  
GCACACCCCGGGGGATGCAGCCGGAGAGAACACGGCCGAAGGAAGGATGGCAGAAAGGACCCAGGAGCGATAACA  
GTAAATCAAATAAGATATTTGTGCGGTGGAATTCCTCACAATTGTGGTGAGACAGAGCTCAGGGAATACTTCAAGA  
AGTTCGGAGTGGTCACGGAGGTAGTCATGATCTATGACGCCGAGAAGCAGAGGCCCGAGGTTTTGGATTTATTA  
CTTTCGAGGACGAACAATCAGTGGACCAGGCTGTCAACATGCATTTTACGACATCATGGGCAAAAAAGTGGAAG  
TTAAACGAGCTGAGCCTCGGGACAGCAAGAGCCAAGCGCCGGGACAGCCAGGTGCCAGCCAGTGGGGGAGCCGGG  
TTGTGCCCAACGCTGCCAATGGCTGGGCAGGCCAGCCCCGCCACGTGGCAGCAAGGATATGGCCCGCAAGGAA  
TGTGGGTGCCGGCAGGACAGGCGATTGGTGGCTATGGACCGCCCCCTGCAGGAAGAGGAGCCCCCGCCACCCC  
CACCCTTACCTCCTACATCGTGTCCACCCCTCCTGGAGGCTTTCCCCCTCCCCAGGGCTTCCCTCAGGGCTACG  
GTGCCCCGCCACAGTTTCTAGTTTGGCTACGGGCCTCCACCTCCACCGCCAGATCAGTTTGCCCTCCGGGGGTTT  
CTCCTCCACAGCCACTCCCGGGGACAGCACTCTGGCTTTCCACCGCCTCCGTCTCAGGCTGCCCCGGACATGA  
GCAAGCCCCCGACAGCTCAGCCAGACTTCCCTATGGTCAGTATGGCCTGGGTTCCTATTCTCCAGCCCCGCCGG  
GCTGCGGGCCACACTTTGTTTACAGTCTTATGGTCAGGCTGAGCAGTGATGTGGCCTAGCAGGTTACGGGCAGGA  
CTTGAGTGGCTTCGGACAGGGCTTCTCAGACCCAGCCAGCAGCCTCCTTCCCTACGGGGGTCCCTCCGTGCCAGG  
GTCGGGGGGCCCCCGCCGGCGGCAGCGGCTTTGGACGAGGGCAGAACCAACAGTGCAAGGGTTCCACCCCTA  
CCGACGCTAGCCCGCGGGCGCCGCGACGTCTGCACGGCCAGACCCAGGATTCCAAACTTGTGAACCTCGTGACAAT  
CACAACTTGGCGGCAAAGTGGCGACTCAACCTTGGGGGGGGGGGGCGGGGGGAGGGCGCGAGGCTTTTGAGCGG  
CTGTGGGTGTGCTCTGGACTGAGGTTTTTAAATATTTCTTTCTTAACCCATCAGCACAAATAAAAAAAGTCACT  
GGTTCAACAACAGGGTTTTAAAAAATGTCTTCAGCTTTAATTCAAACCTTCAGGTTTCTTTTTCTTCTTTTTT  
TTGGAAATTATTTTCTGAGCCTTTTGTTTTACGGTATATTGTAAACTTTTATGTTAAAGAAAAATATACATTT  
ACAAATTGTGAGATTTTTAAGAGAAATTTTCTACGATGTATACTGGCTTATTTTTTAATTTAAACGGGGTTTTCC  
GTCGGCACTGGTGGAGGGGGGTGCGCTGTTAGTCCCTCGCTCCTGGCTTTGGGGGTGGGACTTGGTGGTCCAGA  
AACTCTGGGAGCTTCTAGAAGAAATCTACTGAGTGTATTTCTGTTTTTTGTTTAAATTCCTTGCTTTTGTGCTG  
ACCTGCTTGGTAGTGTCTGAGGTGAACGTGTGGGGGTGCGCACAGCCAGCCGCGTGGATCCACGCAGCGCTGAA  
CCGAACCGAGTAGGAAGCCTTTCTCCCCAGGCACGTGGCTTCAGGGCGTTTCCCATGACCAGTTTGACCCTGGT  
TTGAATAAAGAGAAGTGCCTTTGGATTAG

292/5332  
**FIGURE 263**

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGCGCAGAAGTAGAGCAGAAGAAGAAGCG  
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA  
GCTGTACAGTGC GCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT  
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT  
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA  
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC  
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

293/5332  
**FIGURE 264A**

GGGTTTGGGGAGCAGGAGGCAGACATGTGTTGCTTTGCACGTCTGGTCCCTCCACCTGGCTGGGCATGGGAT  
GGTGACCTCAGCTGGAACATGGGGCTCGAGCCAGACCCAGGGTCTCCCTGCGTGTAGCCCCAACCCCAAGCCT  
GATCCCCACTGGAGACCTGAACAGCCTTGGACATCATCGGATCAGGGTGGGAGGTGCCAGCCTCTGCCACCTGAC  
TTCCAGTCCCTGTGCCCCCTCCACCCCTGCCCTTGGGCACTCCTGCCCTGCAGGTTCCCTCAGAGGGGCAACCCAAA  
GCCAGAGAGGGGCGGGTCTTGTGCGGCCCTCCAGCCTGGACTTCCAGCCCTCTGGGGCAGCATCTGGGTGCCAG  
ACCTCGGTTCCTAGGGCCTCGTTTCTCCCTCTGGGAACAGCCAAATGGTGGTCCCTGAGACTCAGGACAGACCAA  
GAAGGAGCCGGATGACATGGCAAGCCACACACTGCGTCCCTGAGCAGGACGGGACAGCCCGACTCCATCCTCCC  
ACCTGCGACTGAGCCCCACCCCTACTCCTGTCCCAGCCGTGCCCTGGTGACATTTGGGTGGGAGGGGAGGGGA  
TGAGGGGGCACCTGGGGGTGAGAGAACAAATGACGGGTGAATACATGTGTGTGGCCAGGTGGAGGAGGGAGGGGA  
GGAGCAGGTGGGCTGGACAGGGCCGGTGTGAGGAAGGGGCTCAGGCTGGCAGGGGGAGGTGGCAGAGGGATGGGC  
TGCCATTGGTGCCTGTGAGACAAAGGCGGAGGGAGGAGGCGAGCGCTGATGGGAAAGGAACAAAGAGGGGAAGGGG  
GGCGTGAAGGGGGGCTCCGGCGGGAGGGCCGAGCCGAGGGAGGAGGCGCCGGCCAGCTGGACAGAGGGAGGAGGC  
CAGGCCAGAGCCAGAAGACGGCCAGAGGCACAAAGAAGCCAGCGCGCTGGCAGAGTCAAGGGATGGGGCAGGGGC  
TGCCGGGGCCAGCAGGGACCAGCTGAAGGCTGCGCAGGGGGTGGCGGCCACACAGGTAGCCACCCTGAGCTCAGC  
CACCGATGGAGGGTCTGTGGGGCTGTCTGCGGTGATGGCGGTGGGCTTGGGTCCATCTGTCTGCGTTTCTGCACA  
GCTTAGGTGTACCCACTGGCCTTCGTGGTGTTTTCATTGTCCATCGGCAGGGACAGCTGGTGGTCTGTCCGCCC  
CGCGTGTCTGGCTGTCTAGCCTCTGGGCAGGCTTGCTTTTATGGGGGAGGGTCCTGTCTGTCTGTCTGTCTGCGCCTC  
TCTGGCTGTGAGCCTGGGGGTGTCTGGGCTGGCCAGTCGGCTTGCTGGGTTAGGCTGTCCCAGCTGTCTGTGTGT  
TGTCCGGCTGTCTAGGATGTGTCTCTGGGGGCTGGGAAGGAGAGGCCGACCCATCGTCTGTCTGCGTCTGACTGGTCACT  
TGGACGTTTCACTGTCTGTCTGTCTGTCTGCTGCCCCCTCTGTCTCCCCTTGGGGCCACCTCTCACTCCACCTGC  
CCCTCTGCGCCCCGGATTGCTTGGCCACCACCACGTGGGCCTGTACTTGTCCACACCAGTGACTCCTGCCTGAGA  
CCCCCCCCAACCCAGGATCAGGCAGGACGGCTGGGGCTTAGGTGAGGGGCGTCTGTCCGGAAGGCATCACCGCG  
CCCTCCCCAGACCATCAGCTGAACCCCTCTGACCCTGTGATCCAGACGCTGCAGGAGCTGAAGATGGCGAGCTCC  
GTGGCGCCCTACGAGCAGCTGGTGAAGCAGGTGGAGGCCTTGAAGGCTGAGAACAGCCACCTGAGGCAGGAGCTA  
AGGGACAACCTCCAGCCACCTGTCCAAGCTGGAGACAGAGACGTCGGGCATGAAGGAGGTCTGAAGCACCTACAG  
GGAAAACCTGGAGCAGGAGGCCCGAGTGTCTGGTGTCTCTGGGGCAGACGGAGGTGCTGGAGCAGCTGAAGGCCCTA  
CAGATGGACATCACAGCCTGTACAACCTCAAGTTCCAGCCGCCCACCCTGGGCCCCGAGCCTGCCGCCCGGACC  
CCCGAGGGCAGCCAGTACACGGCTCCGGGCCCTCCAAGGACAGCTTTGGGGAGCTGAGCCGGGCCACCATCCGG  
CTGCTGGAGGAACCTGGACCGGGAACGGTGTTCCTGTCTGAATGAGATTGAGAAGGAGGAGAAGGAGAAGCTCTGG  
TACTACTCTCAGCTGCAGGGCCTGTCCAAGCGCCTGGACGAGCTGCCGCACGTGGAGACGCAGTTCTCGATGCAG  
ATGGACCTGATCCGGCAGCAGCTTGAGTTCGAGGCCAGCACATCCGCTCGCTGATGGAGGAGCGCTTCGGCACC  
TCGGACGAGATGGTGCAGCGGGCACAGATCCGCGCCTCGCGCCTGGAGCAGATTGACAAGGAGCTGCTGGAGGCG  
CAGGACCGAGTGCAGCAGACGGAGCCCCAGGCCCTTGTGGCGGTGAAGTCGGTGCCGTGGACGAGGACCCCGAG  
ACAGAGGTCCCCACACACCCTGAGGATGGCACCCCTCAGCCGGGCAACAGCAAGGTGGAGGTGGTCTTCTGGCTG  
TTGTCCATGTTGGCGACGCGCGACCAGGAGGATACAGCGCGCACGCTGCTGGCCATGTCCAGCTCGCCCCGAGAGC  
TGCGTGGCCATGCGCCGCTCGGGCTGTCTGCCTCTGTCTGTCTGCAATCCTCCACGGCACCGAGGCCGCGCGGGG  
GGTCCGCGCCGGGGCCCCAGGGGCACCGGGCGCCAAGGACGCACGATGCGCGCCAACGCGGCGCTGCACAACATC  
GTCTTCTCGCAGCCGGACCAGGGCCTGGCGCGCAAGGAGATGCGCGTCTGACGCTGTGGAGCAGATCCGGGCC  
TACTGCGAGACCTGCTGGGACTGGCTGCAGGCCCGAGACGGCGGGCCCGAGGGAGGTGGCGCCGGCAGCGCCCCG  
ATCCCCATCGAGCCGAGATCTGCCAGGCCACCTGTGCTGTTATGAAGCTGTCTTTGATGAGGAGTACCGCCGT  
GCCATGAACGAGCTAGGTGGGCTGCAGGCCGTGGCAGAGCTGCTGCAGGTTGACTATGAGATGCACAAGATGACC  
CGGGACCCGCTGAACCTGGCGCTGCGCCGCTACGCGGGCATGACCCTACCAACCTCACCTTTGGGGACGTTGCC  
AACAAAGGCCACCCTGTGTGCGCGCCGCGGCTGCATGGAGGCCATCGTGGCCCAGCTGGCCTCCGACAGTGAGGAG  
CTCCACCAGGTGGTGTCCAGCATCCTTCGGAACCTGTCTGGAGGGCCGACATCAACAGCAAGAAGGTGCTGAGG  
GAGGCGGGCAGCGTGACTGCCCTGGTGCAGTGTGTCTGCGGGCCACCAAGGAGTCCACCCTGAAGAGCGTGCTG  
AGCGCCCTGTGGAATCTGTCTGCACACAGCACAGAGAACAAGGCGGCCATCTGCCAGGTGGATGGCGCCCTGGGC  
TTCCTGGTGAGCACCCCTGACCTACAAGTGTGAGAGCAACTCGCTGGCCATCATCGAGAGCGGCGGCGGCATCCTC  
CGCAATGTGTCCAGCCTCGTCGCCACCCGTGAGGACTACAGGCAGGTGCTCCGGGATCACAACTGTCTGCAGACG

294/5332  
**FIGURE 264B**

CTGCTGCAGCATCTGACTTCGCACAGCCTGACCATCGTGAGCAACGCGTGCGGCACGCTCTGGAACCTGTCGGCC  
CGCAGCGCCCGTGACCAGGAGCTGCTGTGGGACCTGGGCGCCGTGGGCATGCTGCGTAATCTGGTGCACTCCAAG  
CACAAGATGATCGCCATGGGCAGCGCCGCCGCCCTGCGCAACCTGCTGGCCCATCGGCCCGCCAAGCACCAGGCG  
GCCGCCACCGCGTGTCCCCAGGCAGCTGCGTGCCAGCCTGTACGTGCGCAAGCAGCGGGCGCTGGAGGCCGAG  
CTGGACGCACGGCACCTCGCGCAGGCGCTGGAGCACCTGGAGAAGCAGGGCCCGCCGGCAGCCGAGGCCGCCACT  
AAGAAGCCGCTGCCGCCCTGCGACACCTGGACGGCCTGGCCCAAGACTATGCTTCCGATTGCGGCTGCTTTGAC  
GACGACGATGCACCGTCATCCCTGGCTGCGGCCGCGGCCACCGGGGAGCCAGCCAGCCCTGCCGCGCTGTCCCTC  
TTCCTGGGCAGCCCCTTCTGTCAGGGGCGAGGCGCTGGCTCGCACCCCGCCACCCGCGGAGGCCGCAAGGAGGCA  
GAGAAGGACACCAGTGGGGAGGCAGCCGTGGCGGCCAAGGCCAAGGCCAAGCTGGCGCTTGCACTGGCGCGCATC  
GACCAGCTGGTGGAGGACATCTCCGCCCTGCACACCTCGTCCGACGATAGCTTCAGCCTCAGCTCTGGAGACCCG  
GGACAGGAGGCGCCACGGGAGGGCCGCGCCAGTCTGCTCGCCATGCCGCGGCCCGGAGGGCGGGCGGCAGAG  
GCAGGAAGCCGGGCGCACCCGCTGCTGCGGCTCAAGGCGGCCACGCCAGCCTCTCCAACGACAGCCTCAACAGC  
GGCAGTGCCAGCGACGGGTACTGCCACGCGAACATATGCTGCCCTGCCCGCTGGCCGCACTGGCTTCGCGCCGC  
GAGGACCCCAAGGTGTGGGCAGCCTCGGCCAGCCGGCTTGACCTTGACCTGCCCGGCTGCCAGGCCGAGCCCCG  
GCCCCGAGGGCCACCTCCGCCGACGCCCGCGTGCACACCATCAAGCTGTGCCTACCTATCAGCACGTGCCACTG  
CTTGAGGGTGCCTCAAGGGCGGGTGACAGCCCCCTCGCGGGGCTTGAATCTCTCCAGGGGCCCCGAAGCAGGCC  
TGGCTGCCGGCAGACCACCTGAGCAAGGTTCCCGAGAAGCTGGCGGCTGCCCCGCTGTCTGTGGCCAGCAAGGCA  
CTGCAGAACTGGCGGCGCAAGAGGGGCCACTCTCGCTGTCCCGATGCAGCTCCCTTTCTCGCTGTCTCGGCC  
GGCCGCCCAGGCCCCAGCGAGGGTGGTGACCTGGATGACAGTGACTCTCCCTGGAGGGGCTGGAGGAGGCCGGC  
CCCAGCGAGGCTGAGCTGGACAGCACGTGGCGGGCGCCGGGGCCACCTCGCTGCCCGTAGCCATTCCGGCTCCC  
CGGCGTAACCGAGGCCGGGGCTGGGGGTGAAGACGCCACGCCGTCCAGCTCGTCGGAGAACTACGTGCAGGAG  
ACACCGCTTGTGCTGAGCCGCTGCAGCTCTGTGAGCTCGCTGGGCAGCTTCGAGAGCCCGTCCATCGCCAGCTCC  
ATCCCCAGTGAACCTTGACAGCGGCAGGGCAGCGGCACCATCAGCCCTAGCGAGCTGCCCGACAGCCCCGGACAG  
ACCATGCCTCCAGCCGGAGCAAGACGCCACCGCTGGCGCCCGCGCCACAGGGTCCCCCGAGGCCACCCAGTTC  
AGCCTGCAGTGGGAGAGCTACGTGAAGCGCTTCTTGACATCGCCGACTGCCGGGAGCGCTGCCGGCTGCCATCT  
GAGCTGGACGCAGGCAGCGTGCGCTTTACCGTGGAGAAGCCAGACGAGAACTTCTCGTGCGCCTCCAGCCTCAGC  
GCGCTGGCCTTGACAGGACACTACGTGCAGCAGGACGTGGAGCTGCGGCTGCTGCCCTCGGCCTGCCCGGAGCGC  
GGCGGGGGCGCCGGGGCGCCGGCCTCCACTTTGAGGGCACCGGCGGGAGGAGGGGCGGGCGCCACGGGT  
TCTCGCCCTCGCGGCGCCGCGGACCAGGAGCTGGAATGCTGCGGGAGTGCTGGGAGCCGCCGTGCTGCCCGG  
CTGCGCAAGGTGGCTCCGCGCTGGTGCCAGGTGCGCGCACTCCCGTGCCCGTCTACATGTTGGTGCCCGCC  
CCGGCCCCGGCCAGGAGGACGACTCCTGCACTGACTCCGCGGAGGGCACGCCGGTCAACTTCTCTAGCGCCGCC  
TCGCTCAGCGACGAGACGCTGCAGGGACCCCCAGGGACCAGCCGGGGGACCAGCGGGCAGGCAAGACCCACC  
GGCCGCCCCACCTCTGCCAGACAGGCCATGGGGCACCGGCACAAGGCGGGAGGCGCGGCCGCGAGCGCGGAGCAG  
TCTCGGGGCGCGGGCAAGAACAGAGCAGGGCTGGAGCTGCCCCTGGGCCGGCCCCGAGCGCCCCCGCAGACAAG  
GACGGCTCAAAGCCCCGGCCGACCCGCGGGGACGGGGCGCTCCAGTCGCTGTGCCTCAGGACGCCCCACTGAGGAG  
GCCGTGTACTGCTTCTACGGCAACGACTCGGACGAGGAGCCCCCGGCGGCCGCGCCACGCCAACCACCGGCGC  
ACATCGGCCATCCCTCGCGCTTTTACGCGGGAGCGTCCGACGGGCCGAAGGAGGCCCTGCCCGTCCAAGGCT  
GCACCAGCTGCCCCGCGCCCGGCCGACCCAGCCAGCCTCATTGCTGACGAGACCCCGCCCTGCTACTCCCTG  
AGCTCCTCCGCCAGCTCCCTCAGCGAGCCCGAGCCCTCGGAGCCGCCGCGCTCCATCCAGAGGCCGGGAGCCC  
GCGGTACCAAGGACCCGGGCCAGGAGGCGGACGCGACAGCTCGCCAGCCCGCGGGCCGCGGAGGAGCTTCTG  
CAGCGGTGCATCAGCTCGGCCCTGCCAGGCGCGGCCCCCGTGTCTGGCCTGCGGCGCCGCAAGCCCCGAGCC  
ACCCGGCTGGATGAGCGGCCCGCAGAGGGGTCCCGGGAACGCGGCGAGGAGGACGCGGCTCGGACCGGGCCTCC  
GACCTGGATAGCGTGAGTGGCGCGCCATCCAGGAGGGCGCCAATTCAATTGTACGTGGCTGCACCAGGCAGCA  
GCTGCCACGCGGGAGGCCTCGTCCGAGTCCGACTCCATCCTGTCTTCTGTATCCGGGCTGTAGTGGGATCCACC  
CTACAGCCCCCAAGCACAGGAAGGGACGACAGGCGGAGGGAGAAATGGGCACTGCCCGGCGGCCAGAGAAAAGG  
GGCGCAGCCTCAGTCAAGACCAGCGGGAGCCCCGTTCCCTGCAAGGCCCCGAGAAGCCACGTGGCACACAGAAG  
ACCACGCCCCGGGTGCCAGCTGTGCTCCGGGACGAACAGTGATCTACGTCCCCAGCCGGCACCCCGTGCCAG  
CCCAAAGGGACCCCCGGCCCCCGCGCCACACCGCGGAAGGTGGCGCCCCCTTGCTGGCACAGCCCGCGGCTCCA

295/5332  
**FIGURE 264C**

GCCAAAAGTCCCGAGCCCCGGGCAGCAGCGGTGCGGGAGCCTACACCGGCCTGCCAAGACCTCGGAGCTGGCGACG  
CTGAGCCAGCCCCCAGAAGCGCCACACCGCCCCCGCCGCTCGCCAAGACCCCCTCCTCCAGCTCCTCCCAGACC  
TCGCCCCGCTCCCAGCCCCTGCCAGAAAGCGCCCCCGGTACCCAGGCTGCTGGGGCCCTGCCCGGCCCGGA  
GCCTCCCCGGTGCCAAAACGCCGGCGCGCACCCCTTCTGGCGAAGCAGCACAAAGACGCAGAGATCGCCCGTGCGG  
ATCCCGTTTCATGCAGAGGCCGGCCCGGCGTGGGCCGCCACCGCTGGCTCGGGCAGTCCCGAGCCGGGCCAGG  
GGCCGGGCGGGGACCAGGGCGGGCCGGGGGCGCGGGGGGCCCTGGGCCTGGTGCCTGTGGCCTCAGCCCTC  
TCCAGCGGCAGCAGTCTTCCGACCGCTCGGGCTTCCGGCGACAGCTAACCTTCATCAAGGAGTCGCCGGGCTTG  
CGGCGCCGCCGCTCCGAGCTGTCTCGGCCGAGTCCGCGGCCTCTGCCCCCAGGGCGCCTCGCCCCGCCGCGGC  
CGGCCCGCGCTGCCCGCCGTCTTCTCTGCTCCTCGCGCTGCGAAGAGCTCCGAGCGGCACCCCGGCAGGGCCCCG  
GCCCCGGCCCCGGCAGCGCCCCCGCGGCCCGACCCAGCCCTGGCGAGCGCCCTGCCCGGCGCACCACTCCGAG  
AGCCCGTCCCGCCTGCCTGTGCGCGCGCCCGCCCGCCGGCGGAGACTGTCAAGCGCTACGCGTCGCTGCCGCAC  
ATCAGCGTGGCCCCGACGGCCCGACGGCGCCGTCCCCGCGGCCCTGCCTCAGCCGACGCCGCGCGCCGACGAGC  
GACGGGGAGCCCCGGCCGCTCCCCAGGGTGGCCGCGCCGGGCACGACCTGGCGGCGCATCCGAGATGAGGACGTG  
CCCCACATCCTGCGCAGCAGCTTCCCCGCCACGGCCCTGCCACTGCGGGGCTCCACGCCCGAGGACGCCCCGGCC  
GGGCCCCCGCGCGCAAGACCAGCGACGCCGTGGTCCAGACCGAGGAGGTGCGCGCCCCCAAGACCAACTCCAGC  
ACGTCCCCGAGCCTGGAGACCAGGGAGCCCCCGGGGCCCGCGCGGCGGCCAGCTCTCCCTCCTCGGCAGCGAC  
GTGGACGGTCCCAGCCTCGCCAAGGCTCCCATCTCCGCACCCCTTCGTGCACGAGGGCCTGGGGGTGCCGTGGGG  
GGCTTCCCCGCCAGCCGGCACGGCTCCCCAGCCGCTCGGCCGAGTACCCCCCTTCAACTATGTGCCAGCCCC  
ATGGTGGTGCAGCCACCACCGACTCGGCCGCGGAGAAAGCCCCGGCCACTGCCTCCGCCACCCCTCCTGGAATAG

TGGCTAGGCCGGCCTTCTGGAACGTTCTCTCCCGGCCCTGCGGCGCGGTCTGGCTGCCCCATGGGCTGCGCTG  
TAGACGTCCCCCATAGGTGCCCCAGGGCCTCTGCCACCCGAGCCCCACCACTCTCAGAACCCCCGCCAGCGC  
ACGGCGACCTCGCGCCTCACCGGAAGACCTTGCCCTCTGTGCCGCGGAGGTCCAGGAGGAAACGGGGCGGCCGCTA  
GGCCTCAAGTCCCGACCGTGGAGCGCTGGCAAGGGCGTCTGGCCCAGCCCTGAGCGCGCGGCCCTTCCCTGTC  
GGAAGCCGTTGCTTGACCCGGGCGAGGGAGGCGGTAGCCTCCGGGTCCGGGTCTGGGTCTGGGTCCGCTGCTTC  
GCAGGGACAGCGCTGGGGAGGTGACGGCGCCCGCCGAGGTGGGGCGAGGCTGGGGGAGGGCGGCGCCGCGGCGG  
GCCTGCCAGCTGGGGGCCTTTGCGGCGCGCAGGGGCGAAGCCTGTAATCACTGCAGCCGCGGTAATTGCTAAT  
GAGGGCTTTGACGGGATTGTTTTTCACTCTCAGCCCCAGCTGTGGGAGTGCGGGTGGGGGTGTGGCCGAGCCCCG  
CAGGAAGCCCCGCCAGACGGTGTTCAGGGAACCCGAGCCCAAGCGCTCCGGCGGAGCCCAAAAGGGTGGGGGT  
GGGAGGGGCGAGGGCCAACGGATCCCCCTGCCTGTGCGACCCCTTGGCGGGAGACGGGAAGGCAGCGGGCTGCGT  
ACGATGGGACCCCTGGTGCAGACGCCGGGCCGGCTGACATTTGACCCCCATCCAGAGGAGATGCTGGCTACCAGC  
TGGGGCGACCCCAAGGGTGCCTGGAGTCAGTATCGGCCCGGCGCAGCCGCGGGCGGGCGAGGCCAATGGAAGGAG  
ACTGAGGGGAGTCCGGCAGTGAGCCCCAGGGCCCTGGGACCTGGAGCCCGCGCTGGCCTCTCCCCAGCGGAGCCT  
GCACGTTACGGAGACCATCACATGTGGGCGTGGTCAGTGCCAGGACCGCACCGCTGCTCATCTTGTCCCTTTTC  
AATTCCCTTCTGGTTTCATGATGCATAAAGCGCTAGGCCCTAGAACTCCAGAAACAGCACAGCTGGGGCGGGGACC  
CAGCCTTGCCCTCCACCCGAGGCTCTGGGACAAGGCGGGAGGTTGCGGGGCCCTTCCGGCAGGTGAACGCAGGGCT  
GGAGAGTATTTGGTGCCAGATGAGGTGAAAGCTTATAGAAGGGCCTGAGGGGCTCGGCTGCCCTCATCCCTGGCG  
GGGGAGGCTGGGAGCTGGGCCTCCTGCGTGGGGTGGGACTCGCAGGGGCGGGTCTCCGTGACTGGGGCAACGCC  
TCGTCTGCGAGGGGAGCCGACGACCTCTTTCTGCAGAAAAGCTCCAGCAGGCGCTGCCTTCACCACGGATCT  
GCCCAGGCTGAAGGCACACGCTCAATGCCCCACGTGCCTTCTCCAGGAGGAACGAAGCAGGGTTTGAGGGTTGGG  
TGGATGGAGCTCAGAAGGAAACCCAGCCCCACCGATGACACCATCCCTCCCGTCCCATCCCCAGCATGGGC  
AAGGCCAGCCTTTCTGGCAGAAGGAGCTGTCTCAACTCAGGGCCGCTGTGAGCAAAGCTGACCCAGCCCCAC  
CCCCAGTTAACTACTGCTGCTTCTCTGAATGCATGTCACGCTGCACCCCATGCTCCGGGGCCACACCTGCGAGGAC  
AAGGAGCTCCAGACAGGACGTCCATAAGTCAACGAGGTGTGCCACCCAGCAGGTGCTGGAGGTGCCAATGCTCC  
CTCCTAGGACCTCGCAGCCAGGCAAGGCTGTGAGGTTGTTTTGGGGGAAGAGGGGGTCATGGATGGCTGAGCAGA  
GAGCGGGGAAAATGCAGGCTGAGTGGGGCGACCTCCTGCCTGCCAGGAGCCCCCTTTCAGGACACAGCGGGGTG  
TCACACTTGCTGTCCCATCCATGGCCCCGAGGGGGAACCTGGTGGTCTCTTCTGAGCTTTTGGACTTGGGGATGC  
CAAAACAGTGCTCACCTCACACTCGCCCCGGCCCCGCTGCGCCCCCTAATTGCCAAAGGGTAGGGAAATGGCGAAG  
CCAGCCACCAGGTGCTGGTGACAGGGCCAGGGTTATGCAGGAAGGTGGTGGCGCATTGCCCTTCCACATATGTAA

296/5332  
**FIGURE 264D**

GTCTCTGGGCGGCGCCCTCCCAGCTCCCTGCCTCTGTTTCCCCATGTGGGCGGTGGGGAACTCCCAGAGCTACCT  
CTTGGGGGAGCGTGGTGGCAGCGATGATGGGGAGACGCCTGGAAGCTCACAGAACTTGGGTCTGGCTGGCTCCTG  
CCCGTGACGCCTTGCCCAGCAGCAAGGTGCGCAACATGGCTGCCAGCCCCGCCTCCCACCCCCACCCCGAGTCCT  
GAGCTCACTTTTCGCCTTCTCCATCCCCCTGCCGTGGGGGGCCACAGCCACACCTCACCGCCCAGTCCAGCTGTCTCC  
AGAAGGGGACAGGCAGTCCGCGGTCTCTGGACAATCAACTCAAGGTACGCCCAGTCAAGGCCTCCCTCCCACCG  
CGGCCCCCTGCCTGGCCACCTGGCCTCTCTGCACCAGGGTGACAAGGGGTCTCGTCTGCCCCCAATGCTCCAGG  
GCCAGTCCTAAGGAGCTGAGGGTCTGAGGACGCAGGGAGGGTGGAGGTGTCTGAGGCTGATGGACAGTGACCGC  
CACTGGCCCCCAACATGACCACACGTGGGTGCTGAACTCGGGGCGCCGTGCCACCGGCATGGTCCTCCCGAGCT  
CCGACAGCATTACCTCACCGGCCCCATCTGTTGCCCCGGTCCAGCCCTGATGGCGCGCGCCTGGTCTGTCTGAT  
TCCCCTAGCCGCCACCCACGTTTCTGTACCGGGTCTCTGCAGTGTTAAACGGACGTGTAAATAGTGGTAAATAG  
TGAAAGCCTGTCCTTCCCTAAATGTAAAGCCATCTGTCCGGCGTAAGGACGACACCGTCAGCTGTCCGACTCGCA  
CACATTTAATAAACTGAGCTCTTGC

297/5332  
**FIGURE 265**

AGCATGCAGTTCGGTACCTGAGGGTGCTGGGGCCGTGGTTTGAGCTTCATGGGCTCAGGTCCATGGCCGTTGAG  
TGTGGCGAAACTGAGGCACGCTGTGCGGGGACGGGGGGCGCTACAGAAGGTAGGGGGCCTCCTGTGCCCTTCAT  
CCAGGCAC TGCCCGGCCCTTTCCACCCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCAGACCC  
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGCCCTGACG  
CTTCTCTGAGTGACCCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACTGGGCTTGACATCGTGGGGGAGCAGGGA  
GCCATACGTAGTTTCTGCTGAATGTGGGAGTCACCAGGACGTCAATGCCACCTCTCACCTTCGCCACCCCTGCC  
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCCCTGGAGAGGTTTTCGGTGGCGGGCTTGTTCGTCTCTGGC  
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGGAGTCCATCCCGGTGGGTGCCACGGCTTTTGCAGG  
AATGGAAGCCCCGCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTCTGTGACCCGATCCCCCTGGTCA  
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCCCTCCTGCCACCCAGCCACTGTGCCTCTCCAGCTGA  
TGGACGAGGAAGCCTCCATTACTTGATTTTTGTTTTATTTATTTTGGAGACAGGGTCTCATTCTGTCACCCAGG  
CTGGAGTACCGTGGCAGCATCATAGCTTATTGCAGCCTCGGCCTCCAGTCTCAAGCGATCCTCCTGCCTCTGCC  
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACCACGCCAGCTAATTTTTGTATTTGTATTTTTTGGTAGAGAT  
GGGGGIGTCACTATGTTGTCCAGGCTGGTCTCTAACTCTTGGGCTCAAGTGTTCTCCCGCCTCGGCCTCCCAA  
GTGCTGGATTACAGGCGTGAGCCACCACACCTGGCTGCATCCGTCATGTTAAGAAGACCCCGGCTGGCAAGCTCA  
CTCGGGGACTGCAGGGAACCCCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCCAGGAGGATGGGGTGGTCAGCAGG  
CAGTGATGCTGCTGTGTCTCTCAGACCCCCCAGTTCCTTCAGGATGATGGAGGATGCGGAGGGCCCCGGGAG  
AGCAGCTCTACCAGCAAAGCCGGGCCCTACGTGGCTGCCAACCAGCGGCTGCAGCAGGCGGGCAACGTGCTGAGGC  
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCCCAGATGAAGCAGGCAGCATTAC  
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCCTGCAGGCTTGGGCAGCGCACAAAGGTGGCCTGCAC  
CCAGGCTTTCCCTGGGGGTCCGTGCGCCCCAGACTGGCATTACAGGGGTCCCAGCCACGTGGGTGTTGACACAG  
GCGCCCCCTCCTGATGCTGGGGCTGCGGTTTCATCCGTCGTCTCATTTCATGCCGAGTTGGTGGGACCCACCCAGCTG  
GCTCCGTCTGCTGACCTGAGGGCCCCACTGGGGTTCGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT  
CTGTCGTGAGCTCACAGTGGCCGTGCTCTGCAGTGGGGCCCTGGGAGCAGGTGCCACCTCCTTCTCTCCCGGG  
GCAGGCACTGCGCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG  
CCCACCCAATGTCAGAGCAGCCCGAGGGCCAGCCTGAGCCCTGACCCCACTTCCTTCTGGGCCCCGGGCTCCTC  
CCACAAGCCACGTTGATCTTCACAACGACCCCTGGGCCGCTGGGGTCAACCAAGAGAAGCAGCCCTGAGACCCAGC  
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCAGCCACTGCCCTTGCTGGAGGACCGCTGTGAGTCACTGG  
CCAGGAGCCCAGGGTGTCTGAGTCTCATAGCCACCCTGCCAGCTGCAGCAGGTCTGGGCCTGCTTCCCTGCGG  
GTTCTGGCCCTGGGGGAGGGGGCGTTAGTGCGGCGGAGGGTCTTGCCAAAGGCTTTTCATCCTAAATAGCAACTT  
GAGTGAAACCTGGGCAAGGCGGCCAGAGGCTGGGCCCTGCACATAAAGCTTTCGTGTGTGTC

298/5332  
**FIGURE 266**

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCAGCGCCCC  
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTACCATCCTGGCCCCGG  
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC  
CCCTAACTCCTGACCCACGCCCTGGGAACCCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT  
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC  
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCAGGAGTTCGAGACCAGCCTGGCCAA  
CATGGTGAACCCCGTCTCTGCTAAAAATGAAAAACAAAAC



299/5332  
**FIGURE 267**

GGGGTCTGGGCAGCGGCGGCCGTGGCGGAGGGCTATGCGGCGGGGAGACGGGGCAGGCCCTCCTCCTTTGTCC  
GCCCTGCCCTCCCATTGGTCCTAGCGGGGGGCCGGGGCGGACACCGGCGGGGGCCGGAGCATCGCGGCTCAGG  
CTGCGGGAAAGCGGTGCGCGTGCAGCGGGGTGGGTGCCCTGGTCCGCGGGCGAGCTCGAGCAGCCAACCCGGGC  
GCGTCGGGGCCATGGACGGCCTGAGGCAGCGCGTGGAGCACTTCCTGGAGCAAAGGAACCTGGTCAACGAAGTGC  
TGGGGGCGCTGGAGGCCAAGACCGGGGTGGAGAAGCGGTATCTGGCTGCAGGAGCCGTCACCTCTGCTAAGCCTGT  
ATCTGCTGTTTCGGCTACGGAGCGTCTCTGCTGTGCAATCTCATCGGATTTGTGTACCCCGCATATGCCTCAATCA  
AAGCTATCGAGAGCCCAAGCAAGGACGACGACACTGTGTGGCTCACCTACTGGGTGGTGTACGCCCTGTTTGGGC  
TGGCCGAGTTCTTCAGCGATCTACTCCTGTCTGGTTCCCTTTCTACTACGTGGGCAAGTGCGCCTTCCTGTTGT  
TCTGCATGGCTCCAGGCCCTGGAACGGGGCTCTCATGCTGTATCAGCGCGTCGTGCGTCCGCTGTTCTAAGGC  
ACCACGGGGCCGTAGACAGAATCATGAACGACCTCAGCGGGCGAGCCCTGGACGCGGGCGGCCGAATAACCAGGA  
ACGTCAAGCCAAGCCAGACCCCGCAGCCGAAGGACAAGTGAAGCAGCCCCCTGAGCCTCACAAGGACCTCCTGGC  
TGGTGAGGAGGGGGCCGCGCCAGGCTCCCAGGCCCTCCACAGAGTCTTCAGCGCATCCCCAACAGCAGCCCCTGC  
CAGTCCCTCGGGTCCAGGCAAGGCCCTGGGGGTCTCCTTAAATGCCACCTCGGGCAAGTCCCAGTCCCAGTCTC  
GGCCACCCCCAGCTCTGGATCCCAGGGCCAGCTGCCCTCTGGCTCTGGCTGTGGCTCCCGCCTGTCCGGCAGGGC  
CCAGGGCCAGCGTCGGGCACAGGGCAGCTCCCAGTGGTCTCGGCAACACACCCAGCCGCCTGGTACTTCCTCCAG  
CCCCTCCCAGTCAGCCCTCCCGTCTCGGGGCCCTGCAGCCACCCAACGTCACCTCCAGCCCGGTCTCACCCAT  
GGTCCAGTCTCCCAGCAGCAGCAACATCCCCACGAGCCCCCAGCAAGTCTCTGGCAAGCCGGAGGACGCAGC  
CCCCAAGACCAGCGGACAGCGCCAGAAGGAATCGTCGAAACAGCCTGCCAGCAGCGCCTCAGTGCCCGAGCTGGT  
CCCCTGCCATTCCGGGACCTCTCTGGAGTACACTTCGGAGTCCACCACCGAGATCACCTGCAGCTGGCCACACCA  
CAGGCCCCCGTGCCTGCAGCACTACTGGTGCCTGAAACACCTGGCCTGCTAGGAGGCTCCAATAAAGCTAACCCG  
GACCAG

300/5332  
**FIGURE 268**

CTCAGAGCGGCCCCGGAGCGGCCGAGCGCGGTGGTCTCGGCCCGGCTGCGCCAGAGTCCGCGCGATGGAGCCCC  
GGCCGCGGCGGGCGGCGCAGGAGTCGCCCCCTGGTCGCCGCCCTTCCTGCGAGACCCGGGCTCGGGCCGCGTGTACA  
GGCGCGGGAAGCTGATCGGCAAGGGCGCCTTCAGCCGCTGCTACAAGCTGACAGACATGTCCACCAGCGCCGTGT  
TCGCCCTCAAGGTGGTGCCGTGTGGCGGGGCTGGGGCCGGGTGGCTTCGCCCGCAGGGAAAGGTGGAGCGTGAGA  
TTGCCCTGCATAGCCGCTGCGACCCCGCAACATCGTGGCTTTCCACGGACACTTTGCTGACCGCGACCACGTGT  
ACATGGTGTGAGTACTGCGCCGCGAGTCTTTGGCCACGTGCTGAGGGCGCGGCAGATCCTGACGGAGCCAG  
AAGTGC GCGACTACCTGCGGGGCTGGTCAGCGGCTGCGTACCTGCACCAGCGGTGCATCCTGCACCGCGACC  
TGAAGCTCAGTAACCTTCTTCTTAACAAGAACATGGAGGTGAAGATTGGAGACCTGGGACTGGCGGCCAAGGTGG  
GGCCAGGGGGCCGCTGCCACAGAGTACTCTGTGGGACCCCTAACTTCCTGGACCCTGAGGTTGTCTCCAGAAACG  
GTCACCTCCTGCCAGTAGGACATCTGGGCTCTGGGCTGCATCATGTACACGGTGCTGACTGGCACCCCACCCTTCA  
TGGCCTCACCCCTGTGCGAGATGTACCAAAACATCCGTGAGGGCCACTACCCCGAACCCGCTCACCTGTCTGCCA  
ATGCGCGCCGCTCATCGTGCACCTCCTAGCACCCAACCCGGCCGAGCGGCCAGCCTGGACCACCTGCTGCAGG  
ACGACTTCTTACACAGGGTTTCACTCCAGACCGGCTGCCGGCCACTCCTGCCACAGTCCCCCATCTTCGCCA  
TACCCCGCCTCTGGGCAGGATCTTCCGGAAGGTGGGCCAGCGGCTGCTCACCGAGTGCCGGCCACCCTGCCCT  
TCACGCCTAAAGAGGCCTCGGGTCCAGGAGAAGGTGGGCCAGACCCTGACTCCATGGAGTGGGACGGCGAGAGCT  
CCCTGTCTGCGAAAGAGTTCCCTGCCTGGAAGGCCCATCCACCTGGTTCGCACAAGGGACCCTGCAGAGTGACC  
TGGCCGGGCCCCGAGGGGAGCCGGCGGCCAGAGGTGGAGGCGGCCCTCAGACACCTGCAGCTGTGCCTGGATGTAG  
GCCCCCGGCCACACAGGACCCCCCTGGGAGAGCAGCAGCCATCCTCTGGGCCCCCAAATGGGTGGATTATTCCA  
GCAAATACGGCTTTGGCTACCAGCTCTTGGACGGGGGCGCACGGGACGGCACCCACATGGCCCTGCGACCCCCC  
GGAGGGAGGGGACCCTCCCCACACCTGTGCCACCTGCTGGACCCGGCCTCTGCCTCCTGCGCTTCCTGGCCTCTG  
AGCACGCCCTGCTGCTGCTGTTTACGAATGGGATGGTGCAGGTGAGCTTCACTGGAGTCCCGGCCCACTGGTGC  
TGAGTGGCGAGGGTGAGGGTTTGCAGCTCACCTCTGGGAGCAGGGGTCCCCTGGCACCTCCTACTCCCTGGACG  
TCCCGCGGAGCCACGGCTGCGCCCCCACCACCGGACAGCACCTTACCACGCCCTCCGCACTGCTGCAGAGTATCT  
AGTGCCCCTGAGGGTCAGAGTGGACCCCTGCATGGTAGTGCCAGGGACCCAGGCTCCATTTCATTCTGTGGCT  
CCCCAGAGGGGCTGTCTGGGGGAGGGCTGGGGGGCACACGGGAGGTGGGTTCTTGCCCTGTGGCATGACTGTT  
CAACCCAGACTTTGCTGGGATCTCTTCCTTTTTTATTAAAGACAATTTGAAATGCTGT

301/5332  
**FIGURE 269**

GGCTCAGGACCCCCGTGGCGAGGATGCACCTCCCAGCCCTCGGCCACGCCACACGGACCACAGGGCTCCCGAGTC  
TCAGCAACACCAGCTAAGGGGCATCATGCCTCTCCTGCCACACCCAGGGCCCGTGCCTTGCTGTCCCTGCAGCCC  
CCAGACCCAGGCAGACAGGGACAGCCCTTCTGACCACCGCACACACTCGCCACCGCAAAGATCCCCGGGGATGCC  
CCTCGCCTGTGTGTGTCCCTCATGGCTGTACAGCAAATCTCCAGGAGCCCGGAGGTGCCCATGGAAAACACCCC  
CAGCTTCCGGAACGTTCTTTTCGGACAGGGCCATACCGGAGCAAGACTCAGCTTTCTGGTAGCGGGTGGCTGGGCA  
CTGCCTGTGAGATTCTGTACACTCGCTCCAGATTCAAGGGGTCCAAAAAGTGTAACAAGTCAAGTGCCCATCC  
AGGGATGAACGAACACAGCCCCGGCCCGGCCACACCATGGAGCAGGACTCGGCCATGAACAGGAACCAGGCTCTGA  
CACCGGCCACGGCGCAGATGCCCCCTGGAGGAGTCCACCCTCAGCAAGAGACACACAGACACCGACACGGCGTGCA  
ATCCCATTTGTGTGAATGTCCAGGACAGGCCGATTACAGAGACAGGAAGGGGACACGTGGGTGCCAGTGACTGGGG  
ATTATGGGGACTGGGGGAAATGGCTAAAGGGCACCCACAAAAGTTAATGATAATGTTCCACAGTTTTTTTTTTTGA  
GATGGAGTCTCACTCTTGTACCCAGGCTGGAGTGCAATGGTGTGATCTCTGCTCACTGCAAGCTCTGCCTCCTG  
GGTTCACGCCATTCTCCCTCCTCAGCCTCCCAAGTAGCTGAGATTACAGGCATATGCCACCACCCCCAGTAGAGA  
CGGGGTTTACCATGTTAGCCAGGCTGGTCACGAACCTCCTGACCTCAAGTGATCCCCCACCTCGGCCTCCCAAAG  
TGCTGGGATTACAGGCATGAGCCACCGTGCTCACCAGAATTGTGTACTTTTTTTTCTTCTTCTTCTTCGGCATG  
GAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAATGGTGCAAACCTTGGCTCACCGCAACCTCCTCCTCCCGGGTT  
CAATAGATTCTCCAGCCTCAGCCTGCTGAGTAGCTGAGATTACGGGCGCCGCCACCACACCAGCTAATCTTTG  
TACTTTTAGTAGAGACAGGGTTTACCATGTTGGCCACGGGCAAAAGAATTTTGTGAGGGCAAATAATATGAGA  
CCACAAAACCTGCCTTCCCTGCTCAGTTTTAATTTTCACAGTTTTAATTTTTCAGCCTTCTCTGGTTACCAAATAA  
CCACGCTCACGGCCGTTCAATTTGAAGATATTTCCAGTTAACGTGTGTGAAGTGGGTTTTTTGAGATGTAATTTAC  
AAGCAATAAAATGCTCCTGTCTCTGC

302/5332  
**FIGURE 270**

GCGGGCCGAGGAGCCGGGCGCAATGGAGCGGAAGAGGTGGGAGTGCCCGGCGCTCCCGCAGGGCTGGGAGAGGGA  
AGAAGTGCCCAAGGTCGGGGCTGTCGGCCGGCCACAGGGATGTCTTTTACTATAGCCCGAGCGGGAAGAAGTT  
CCGCAGCAAGCCGCAGCTGGCGCGCTACCTGGGCGGCTCCATGGACCTGAGCACCTTCGACTTCCGCACGGGCAA  
GATGCTGATGAGCAAGATGAACAAGAGCCGCCAGCGCGTGCCTACGACTCCTCCAACCAGGTCAAGGGCAAGCC  
CGACCTGAACACGGCGCTGCCCCTGCGCCAGACGGCGTCCATCTTCAAGCAGCCGGTGACCAAGATTACCAACCA  
CCCCAGCAACAAGGTCAAGAGCGACCCGCAGAAGGCGGTGGACCAGCCGCGCCAGCTCTTCTGGGAGAAGAAGCT  
GAGCGGCCTGAACGCCTTCGACATTGCTGAGGAGCTGGTCAAGACCATGGACCTCCCCAAGGGCCTGCAGGGGGT  
GGGACCTGGCTGCACGGATGAGACGCTGCTGTCGGCCATCGCCAGCGCCCTGCACACTAGCACCATGCCCATCAC  
GGGACAGCTCTCGGCCCGCTGGAGAAGAACCCCGGCGTATGGCTCAACACCACGCAGCCCCCTGTGCAAAGCCTT  
CATGGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGACGAGGTGCGGAAGCGGCTGGAGGAGGCGCT  
GATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCCTGACGGGGAGGCGCCGCTGGACAAGGCCTGCGCTGA  
GGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGGAGCCCGACCCGGACCCGGAGATGGAGCACGTCTAGGG  
CAGGTGCTGCGGGGCCACGGGGGCTCCCTGGAGTCGGGTCTGGCAGTGGGGACTGCCTGGTGAACACAGATGTG  
CTTGGGATGACGGGTGCCTCCCAAGAGCTTCCCATCTCCCTAGAAGAGCCCAAGCGTCCCGTCCCGTGGAGTCG  
CTAAAGCCAGCCCTCCCTGTCTTTCCAGAGGCCCTGCCGAGAGCCCGTGTGCTGCTGGAGCCGCCTGCAGAC  
GCGGTCTCGGCCCCACGTGAACCAGGCTCGGCGGCGAAGCCAGCCTTGGAGACACCCAGGAGGAAGGCCGTGC  
TCCTGGCTCCCTCCTCGGCCCCGTCCCCACTTCCCGGGGCTCGGGGACACAGCTGGGGCTGCCCCACCCGAAA  
GACCCTCCACGCTCGTCTCTACAGAGTCCGGCTTCGGGAAGTGCCGGGTGCTCCTGGGCCCTGCCTGGCTCCCT  
ACGACCTTTGGGCTCGAGGCCAGCTCCTCCCATGCCCCTGTCCCAGCTCCTTGAGACTGGAGAGCAGCCAGCA  
GGTGCCCGGCAGCTCGGCGCCACGGCTTGCTGACAGCTGGGAGGGTTTCTCGGTCTGGAGGCGTAGTTTTGAAAC  
TCACATACCCACTGTGCAGCGTGAGGACGGGACTCTGGTCTGCTGTGGGGGGCATGCAGGACGGCGCCACTCTC  
TGCCCTGCCATGCGGCTGGTGGTGCCACAGAGCCTACCGTGCTGAGTGGCATGCCAGGAGGCGCTCTCCTT  
CAGTAAATGTAACACAGTCGAGGCACGTATCGGGCAGCCTTCCCTGTGTGCCAACGCCAGCCTTCGCTTCTGAA  
AACCAAACTCCAGCCGCTGCCAGTCGGGACTTGGTCGCCCCGGCGCTGCCAGAATGCTCCACTGCCAGCCGGCCCC  
CCTGCCTCGGTTTTCCCTTCTGTTTAGTGCGACACAGGCACCCAGCTTTGGGGTGGTGCTGACGCTCCCAGGGGT  
GCCAGGAGCCACTGGGACAGGGTGAGGCTCCCAGACGCTCCTCGAGGTGCCAGCTCTCCAGGGAGCTTCTGGCC  
CAAGGCCGTCTGAGGGATCTGCTCCTTAACCCCCAGTGCCTTGGCGAGGGCAGGTCCAAGCCACAGACGCCTG  
CCCCGAGTGGACTCTGCGGCCAGTCCCTGGTGGCCCTCCTGGCCCTGCTGCCAGTGAGGGCTCCTACGGGTGGGT  
TCATTGGCCTGGGCCCAGCGAGCCCCACCTGCATTGACCTTAGGCCATAGAGAGGGCCTGTCCCGGTGCTGCC  
CCAGCCAGGATCTGGTCGCTGCCCCAGGGGGACTGATGGGCAGAGTCGCCCCTGTGGCTGGACTGTGACCATCCC  
TGATGGGGCCTGACCGCGGGAGCTGAGGAAGCGCCGCTCCACCGTCTGCCCTCCAAGGACCCGCATGGAGGCAGT  
GGGCTGGCAGCTTCTGTGCTCCTGTGTCAGAGTCAAAGCACAAATCCTCAGGACGGGGCTCAAGGGCCAGGGCAG  
CCGAGGGAAGCTCCAGGTGGGGACCACGTCTTCTGAGGTTGGTGCCCACTGGCTGGGACCCCTTTCAGTGGGGT  
GGCCTCCCCCTGTGCTGCTGGTGGAGGGAGCCGTGGGCGTGGGGACGTGACTGAATAAAGCCACCATGGGTGGA  
TGTGCTTG

303/5332  
**FIGURE 271**

AGTGTAGCCGGGTCAGCTGGACAGGGTCATCCTGAGGGTGCGACTCCGCCGCGATGGTGACCCGGTTCTGGGCC  
CACGCTACCGGGAGCTGGTCAAGAAGTGGGTCCCGACGGCCTACACATGGGGCGCTGTGGGCGCCGTGGGGCTGG  
TGTGGGCCACCGATTGGCGGCTGATCCTGGACTGGGTACCTTACATCAATGGCAAGTTTAAGAAGGATAATTAAT  
TACACAAACCCCTTCACAGACTGCTCTGGTGCCTGGTGGTGCTAGCTCCTCCACCTCAGCACCTGCTGCATCTGG  
AGCAGCCCAAGCCTCAGGATGGACAAGAGGAAACCCACAGCTCAGCTTCAGGCTTCTTATGTTTCTGAAAACAGC  
TTGGATATTTTAATGCACGTTGCATTAAACCTCACTGAAACCTGCTCCGTGCCCGGATGTTGATCATGCTGGTGG  
CTTGGTTACTGTGACTGTAGCTGGAGTGGCACAGGTGACCCAGGCGTCCTTTCAGCTCCAGAATGTTGCAAGTCT  
AGGAGAGTGTTCCAATGGCTGACAGAACTGCCTATTTGAAATGGCTCATAAGTAGTATCTGCAGTGTGTTTCATC  
CGTTGCTGCCTTAACAAGTCACCCACACGTAGTGGCTTAAAGCAACGAACATTCACCTCTCTCACAGTCTGTGTCA  
GTCGGGGATTGGGAGTGATGTATCTGGGTGGTTGTGGCCAGAGTCTCTCATGAGGTTGCAGTTAAGACATCAG  
CCAAGGCCACTTCGTCTGAGGAAGGCTCAACTGGGGCTGGAGCCACTTCCAAGCCAGTGCCCTCACGTGGCTGTC  
GGTGACAGCCACAGTTCTTCCCATGGGGGCCCCCTACACGAAGCTGCTTGAGCATCCTCACGGCATGGCCTCTGC  
CTTCCCCAGAGCAGGTGAACCAAGGGAGAGGAAGGAGCAAGCCACAGTGCTTCTATGAGCCACCCTGAGAAGTCT  
CACGTGATCACTTCCGCCACAGCCTGTTTATCAAAAGCAAGCCCCCAGGCCCAGCCACGTGCAGAGGGAGGAG  
AATGAGGTTCTGTGTTTTGAAGGGAAGAATATCAGAATTGGTAGACATTTCAAACCTGTCACATTAGGGATACAAA  
AATGAACAGGCTGGGAGTGGTGGCTCAGCCTACAATCCCAACACTTTGGGAGGCTGAGGAAGGGGCATCACTTGA  
ACCAGGAGTTCAGTACTAACCTGGGCAACAAAGAGGCCCTGTCTCTGATAAAAAGAAAAAAATGAAAAATAA  
AAATGAACAGGTATAAAAAG

304/5332  
FIGURE 272A

GCCTGAGGTGCCCCGCCCTGGCCCCAGGAGAATGAACCAGCCGAGAGGATGGCGCCTGTGGGCACAGACAAGGAG  
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGGCCCGCTCCCTG  
GCCGGGGCGCAGTTTCGGAGGTTTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC  
AGCTCCTCCTTTGACCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA  
TCCACATTCTTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA  
GGCGTGGGCGGCCTGACTCAGGCTGGCTTCCTGTGAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCTGTCCCT  
TCGGGCATGAAGGGGACCTCCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGGGAGAGCGGCAGACGGCAGC  
CTAGACACGCAGCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT  
GAGGACTACGGCAGGGATGCCACCGCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC  
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGGCCCATGCTG  
GGTGGGGGCTCATCCCCGTGCCCCCTCCCGCCCGGTAGCGGCCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTT  
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA  
TCTCCTTCTCCTCAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCTGTACGCGGGGCCGAC  
AGCCTCCTGGGCTCCCGAGGGACCAAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC  
TCCCGGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCCGTGGGCTCCCCCAGGGCCTGGCAGGA  
ACGTCACAGTGGCCTCGAGCAGGAGCCCCCGGTGCCTTATCGCCAGCTACGACGGGGGTCTCCACGGCCTGCAG  
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCACGTGCTCCGAGCCACGCCGTGGGCACAGCCGGCGCATG  
CACACGCTGCTGCCTGGCCACGGGGCGCTGGCCTCAGGTTTACC GGCCCCATGTCACTGGGCGGGCGGCACGCA  
GGCCTGGTTGGAGGCAGCCACCCGAGGACGGCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC  
CCCAGCCAGCCAGGCACCCCTCCCTGACCTGTCTCGGCCTCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC  
ACGGCGGGCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTCAGCGGTGACCACTCGGAG  
GAGGAGAAGAAGGAGCTGAAGGCCCCCGGGCCCGGACCAGCCAGACGAGGACGAGGACGACCTTCTCCCCCA  
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC  
AACGAGGCCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAACTGCTC  
ATCCTGCACCAGGCTGTCTCGGTCACTCTGAACCTGGAGCAGCAAGTGCGAGAGCGGAACCTGAATCCCAAAGCA  
GCCTGTTTGAACGGCGAGAAGAGGAAAAGGTGTGAGGTGTGGTTGGAGACCCCCAGATGGTGCTTTTCACTCCC  
CACCCAGGCCTGAGCGAAGCCACAACCCCGCCGGGCACATGTGAAAGGTATGCCTCCGTGGGACGAGCCACCCG  
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC  
CTGTTGTGACATCGAGCCAACACCAACCTGACAAGGTTGGAGTGATGGGGCGGGCAAGGTGACACTGGGTCC  
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCGTGTCA  
CTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCTGGGCTGACAGGAGCATTTTTTTTTT  
TTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACTTTGTGAGAGAAGAAAAAATGCCTTAACATAT  
AAAAAGCGGAGAAATGGAACATATCACTCAAGGGGGATGCTGTGGAAACCTGGCTTATTCTTCTAAAGCCACCA  
GCAAATTGTGCCTAAGCGAAATATTTTTTTTAAGGAAAATAAAAAACATTAGTTACAAGATTTTTTTTTTTCTTAAT  
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTTTAAGCTTTTTTTTGATATGTTTTGTAAGC  
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTTCTAGACTGAGCATTGCAATTC  
TTGATCAACCAGATGATTAAACGTTGTATTAAAAAGACCCCGTGTAAACCTGAGCCCCCCCCGTCCCCCCCCCCCC  
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGGTCTTTTGTTTTTTTTGATGTTGGGGTTCTCTT  
GGTTTTGTGATGTGGAAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT  
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTGAGCAAGGTGGCTCTGACCTCCAGGTGACT  
CTGCCAAGCAGCTGTGGCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCTAAGCTGCTCTCCCTTG  
GAACCTGCACAGCTCTCTGAAATGGGGCATTTTGTGGGACAGTGACCCCTGGCATGGGGACCACACCTGGAG  
CCCGGTGCTGGGGACCTCCTGGACACCTGTCCCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT  
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCACCCACCCACCATGTCCCCATTACACCA  
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCTGGCCAGCCTCCCCAATGCTGGGGAGCATCCCTGGGCC  
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC  
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCTGCTGCAGAACCAGCAGGGTGTCCCCCTGGGGCCATCT  
GTGTCCCATGTCCAGCACCCAGGCCTCTCTCCAGGTCTCCTTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

305/5332  
**FIGURE 272B**

TTCCCAGCTGGCTGGGGACTGTCTTGGGTTTAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC  
GAACTAGGGCAGTGGTCACTGTGGCACCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC  
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCC  
GTGCCACTCCTGAGACTCCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCCTCCCCAGACTGGCTTG  
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCAGTCCAG  
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC  
TCTTAAGGGAACCTGCCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT  
AGCCTCTGGAACCTGTGCGTTCTGCATAGAATTCAAACGAGATTACCCAGCGGAGGAGGAAGAAACAGCAGTTC  
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTAA  
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT  
TCAGAGACCTGTCCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

TCCTGGCCCTGAAGGTCATCCACAGCACCGTGGTGGACACGTCTGTGCTCTTCCCCCACC GCCTGGGGCCTCCCCCT



307/5332  
**FIGURE 273B**

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT  
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTGAGAAGACGCCAAGACCAAGCGATGAC  
GCCTGCCCCGCTCCACCCGCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA  
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAACGCCC  
AGCCCAGCCCACCCCGCTCACGTCTGCCGCACCCCTCCGCCGGTCCCCACCCTCTGCCCCCAGCCCTCTGGC  
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCACCCGGCCCGCAGCCCTCTGCCCCCTC  
CTGCCAGGCCCTCCCTCCCGGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTGCGGGGCGGGCTTGTCCCAG  
GTTTGTTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTAAATTTAAACCTGATGACTTGAC  
AGCATCTTTCCACCGGAAGAGCGGGCCTGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCAGTGG  
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCTCTGTGCTCCAGGGGTGGCCGGTCTTCGGGGGC  
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCACTCCGTGACCTCTGAGAACCAGCTGGCCCCCTCGTTAGCCC  
CAGGGTCTGCCGTCTAGAGGGAGCCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCTCTCTGCG  
GGGCTCTCCGGACCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

308/5332  
**FIGURE 274**

ATGTCGGCGGGCCGTGGCGTGCGTGGATTACTTCGCCGCCGACGTGCTCATGGCCATCTCTTCGGGCGCCGTGGTG  
CACCGCGGGCGGGCCCGGCCCCGAGGGCGCGGGCCCCGCCGCCGGCCTGGATGTGCGCGCGGCGCGCCGCGAGGCC  
GCCTCACCCCGGGACCCCGGGGGCCACCCCGCCGCCCCCGCCGCTTCTGGCCCGGGCCCCGGCGCCGCCGCGGC  
GCCCCACCTGCTGGCCGCCAGCATCCTGGCCGACCTGCGCGGCGGACCCGGAGCCGCCCGGGGGGCGCCTCGCC  
CGCCTCCTCCTCCTCAGCCGCTCGTCCCCGTCTCGGGCCGCGCCCCGGCGCCGCGCCCTCCGCCGCCGCCAA  
GAGCCACCGCTGTCCCTTCCCGGACTGCGCCAAAGCCTACTACAAGTCCTCGCACCTAAAGTCGCACCTGCGGAC  
GCACACAGGGGAACGCCCTTTTGCTTGTGACTGGCAGGGCTGCGACAAGAAGTTCGCCCCGCTCCGACGAGCTGGC  
CCGCCACCACCGGACGCACACGGGCGAGAAGCGCTTCTCCTGCCCTCTGTGCTCCAAGCGCTTACCCGCAGTGA  
CCACCTGGCCAAGCACGCCCGCCGCCACCCCGGCTTCCACCCGGACCTGCTCCGGCGCCCTGGTGCCCGCAGTAC  
CTCCCCCAGCGACTCGCTGCCCTGCAGCCTGGCCGGGAGCCCTGCGCCCAGCCCCGCGCCCAGCCCAGCCCCCGC  
AGGCCTGTAGGGCCCTCGTGCAGCCACCCCTGACCGCCAGGATGCTTCTGCCATCCAGGGGTGTAGTGAGGACCC  
ACGGGGAGCCTGGGCCCCCTTCCAGCCGTGGGCAAACCCTGAAGACACCCCTGCCCCCTCCAGAGAGTGAGGAGG  
GGGCCTGAGACTGGACCTGGGTCTGCCTGACCTCAGAGTGTCAGGGGGCTTGGAGAGACCTGCGCCCACCCCTCC  
ACTCTCCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTGTG  
CTTTCCGTGGGTGGCGCCCCCTCCCCGCCCTGCCTGGCCTCATCCTTGTAATTAATTAATAACAAGCCCCCTT  
TTAAACCCT

309/5332  
**FIGURE 275**

ATGAGGACGCCAGGCGTGGGGGCCCTGCTGCCATCGCGGGACTGCCCCCTCGACAGCTTCCCGTCAGTCCTACTG  
CAGAGGGGCCAGGACAGCGCACTCTGGGTCTTGAGGCCCGTGGGGGCCGCCGCGGGGTGCGGGCTGCGAGGCAGC  
GCCCCCGTTCCATGCGCGGCTCACGTTTCGGAACACGTCTGCCTTTCATGCCTCCCGAAGAGCCTCCCCGCATC  
CCGTGCCCCCTGCTCGCTGCTGCCGCTGACCCTTGGGCGCTGCGCTGGTCCAGAGCGTGTGTCCTCTGACGCCG  
TCAGAACCTGAGCTCCCTGCGAGCTGGGACTCCGCCGTGTCTTCATTGCCTCCAGTGCAAAGCAACTGCTTGCAA  
GAGAACAAAATTCCACAAGACACTGTGATGAAGAGGATTTTGAAATCGAAGTATTTGGGGCCGCCCTCCCTCC  
CTGCGGGCTGTGGATATTCACGGGCGCCTGGGGGCTGAGTCTCTGGTCCACCCTGTGTACCTGCTCCTGGTACA  
CCCCAGCACGGGGCCCTGGGTGACGGGACAGACACCAGCCAGGATGGAGGAGGCCTTGGTGTCCCTGAAGCAGCT  
CCTAGCATGGATGCCGTGGACCCCAGAGATGCTCCCTGCAGGACCCACGCAGGGGCTTCCTTGCACTCGGCCAG  
CAGGGTGACCTCGCTGTGTCTCCGGTTGGAGGGTGGCAGCTGCTGCCCCACCTTCCCACCTGGCTGGTGGAACC  
TTGTCCTCTGTCCCCAGGAGCTTGCAGCTGCCCCCGCCCCCACCCTGCGTGGTGGCCCCCTGGACTGGAC  
CATGGCCTGTCCGGAGGTGGCTTCCACAGGTTGGCAAAGGTCATCCGTGAATTAA

310/5332  
**FIGURE 276**

GGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCTGCCCGCGACTCGGAGCACCCCCACCCCTCCCC  
TGCCGGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCCCGGCCTGGGCGGCGCCCGCCATGAAT  
GGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCCCGGCCGCATCGCTGCCAAGCTCGCC  
TTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCCGAGCCGGGGCCTGGTGGGGCCGGGGCCGCCCCC  
TTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGACTTCCAG  
TACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCCTGCATG  
TATGTTGCTGCGTGCCTGGTGCCAGGTACACGGTCTTCTTCTCGCACGGCAATGCCGTGGACCTGGGCCAGATG  
AGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTACGGTGCC  
AGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACCAAGGTAC  
GGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCATCGGCACGGTGCCACCGTGACCTGGCCTCGCGC  
TACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCATGCGCGTGCCTTCCCCGACACCAAGAAG  
ACCTACTGCTTCGACGCCTTCCCTAAGTGAGCGGCCCGGGCGGGGACGGGGGCGGGGCGGGGCCCCGGGCCGGGCG  
CGAAGTCTCACC GGCTCCACGACCTCCCGCAGCATCGAGAAGGTGTCCAAGATCACGTCTCCCGTGCTCATCAT  
CCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACGAGCGCTGCCCCAAGGCGGTGGA  
GCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCTGCTT  
CATCTCCCAGGAGCTGCCCAGCCAGCGCGCCTAGCGGCGGCCCAACCGGCCGGACCTCAGCAATAAGGCGGCC  
CCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCGGGCGGCCAGGGGACCCCGCCC  
CGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACCTCTTTCTTTTGAAGCAAGAAGAAAATA  
CGTGAAAACGGAAATTAAAGATTTAAAATTTT

311/5332  
**FIGURE 277**

AGACTTGGCGAAGCGCTGCGCTCGCGCCCGGATCCCTCAGGCGGCTGCAGGCTTCAGCCTGCGCTGGTTGGTGAA  
ACAGAGATGTCAGAAAAGGAGAACAACCTCCCGCCACTGCCCAAGTTCATCCCTGTGAAGCCCTGCTTCTACCAG  
AACTTCTCCGACGAGATCCCAGTGGAGCACCAGGTCCTGGTGAAGAGGATCTACCGGCTGTGGATGTTTTACTGC  
GCCACCCTCGGCGTCAACCTCATTGCCTGCCTGGCTGGTGGATCGGCGGAGGCTCGGGGACCAACTTCGGCCTG  
GCCTTCGTGTGGCTGCTCCTGTTACGCCTTGGGCTACGTGTGCTGGTCCGGCCTGTCTACAAGGCCTTCCGA  
GCCGACAGCTCCTTTAATTTTCATGGCGTTTTTCTTCATCTTCGGAGCCAGTTTGTCTGACCGTCATCCAGGCG  
ATTGGCTTCTCCGGCTGGGGCGCGTGGGCTGGCTGTGGCAATTGGATTCTTCCAGTACAGCCCGGGCGCTGCC  
GTGGTCATGCTGCTTCCAGCCATCATGTTCTCCGTGTGGCTGCCATGATGGCCATCGCGATCATGAAGGTGCAC  
AGGATCTACCGAGGGGCTGGCGGAAGCTTCCAGAAGGCACAGACGGAGTGGAAACACGGGCACCTTGGCGGAACCCA  
CCGTCGAGGGAGGCCAGTACAACAACCTTCTCAGGCAACAGCCTGCCCGAGTACCCCACTGTGCCAGCTACCCG  
GGCAGTGGCCAGTGGCCTTAGAGGGAGCCTGCCCTGCCCCACCGCCACCACTCCTCCCCTTCATTCTGCTG  
CTACCCCTGGTCCCGAGGGCTGGGAGTACCTGGGGCCCCATCCCCCAGCTGGGATGGTGGAAAGCCGGTGGTGGC  
CACGGACCGCCCCCTCCTGCCAGGGCCACAGAACCCGTGTTTCATCTCATCCGAGAGCGGAGTTCTCACAAGCA  
CTCCCCAGCAGCCCTTGGCCTCTGCCGTCCACAGGACGCCCTCTTGCTCCCGGAAACGTGTGGTACCCGCCGCTC  
CACTGCACGGCTGGTACGGCCTTGCTTCAGGTCTCGAGGCCTGACTCCGGGGGACAGGTGGCAGCAGGTTCGGCC  
GCCCTCCCGTCTCTCCAGAGCTGCTGGCGCTGAGGTTCAGAGCGGGTCTGATGGGGAGCTCCGTCTACCGGCCAC  
CCGCCGTACCATGGCAGATGCCCTTGGCCGGAACATAAAGAGGCGTCGGGGCCAGCTTCCGGTCCCTGCACT  
GATAGAGGGCTTGGTGCCTAGCTGAGTCCCTCGCTGTCCCGCCATCCCTGATCTGTGCGGCTCCAGCCTCGCCC  
CTCCCCACGTGCACCATACCTGGGGAGTTCCTGGTCCAGGTATCCTGGGGCCACCTCCCTGCCTCCAAAACA  
GGGATCCCTGGCAGGCTGTCTTTCCACGCCCTGAGTTCAGAGTCGGGGACCCAGGCCAGGTGGGAGCACAGCC  
GCTCCCCAAACCCAGCAAACCGGCAGAGAGCCGTTTCCAGCAGCCGGAGCCCTGCAGGAGAGGCCTTTGTGTT  
TTGTTTTGTTTTGTTTTTCTCTTTTGAGACAAGAGTTTCACTCTGTGCCCCAGGCTGGAGTGCAGTGGTGTGAT  
CTCGGCTCACTGCAACCTCTGCCTCCCGTGTTCAGCAGTTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTAC  
AGTTGCCTGCCACCACGCCCAGCTAATTTTTATATTTTTAGTACAGATGGGGTTTCACCATGTTGGCCAGGCTGG  
TCTCGAACTCCTGACCTCAAGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATAATAGGTGTCAGCCACCG  
CGCCCAGCCTGGAGTGGCCTTTTATGAGAGGGGACCCGTCAAATCTGTGCCTTATGGAGGGGTCCGGCAGCGGCC  
ACAATTGTCTTGTCCCTCACCCCCCACTCCCCCTGGAACACCTCTCCAGGCAAGACATTTTCACAGCACCAT  
TCACAACGGTTGGGCCAAAAAGAACTTTTCCTTCATCATTTCTGCACTCGCTGACCACAACCTTTGGACACCCC  
AGGCTGCCACCCCTCCCCACCCGTTACCCCCAGGATGCTGTTGCTGTAGGACGCTGCTGCCCTGGAGCCCTCC  
CCAGGATGTGAGCCAGTCCCCTCGCTGGTACGGAATGCCGCTGGGTGCCCGGAGGCGGCCATGGTGTCTCGATGG  
ACGGCAGCCAGGATGGAGCACCCATGGGTCTCACGGCCATGCTTCAGGGTCTTCAGGTCTGCCCCCGGCCAGTC  
TGCCAAGAGGCACCCCTTCCCCAGCCTCTCGCCTGCACTGATGCAGACAAAATCTCACCTGGCAGGCCCAACCC  
CCCCCACCCCTCCCCCGCGTGTGTGGCCCCCTCGCCGCATCGTTGGGGTTTTGTTATGTGAAAATATCCTGGAA  
ATAAATACATGTTTCTGCACTTAG

312/5332  
**FIGURE 278**

CAGCAGAATGTCTCCTGCCCCGAGAGCGACCCCCGAGGCCACTGAGAAGAGCAGCGCGGCCTGGCCGGCCCCGAAC  
GCCTGCGTCTCAGTAGCTGGGAGCCACGGGCCCCACGCCCCGCCACCGCCGAGTGATGTTCTAGCCACAGAGGA  
GCCAAGACCTCAGGTTTTCCAGAGACTTGGGATTTGCACGGCAGCAGAGTCACCGTGGAGAGGOCAGGGTATCACA  
AACTTATGGATTTTGACAAGAAAGGAGGGAAAGGGGAGACGGAGGAGGGCCGAGAATGTCCAAGGCCGGCGGGG  
GCCGGAGCAGCCACGGCATCCGGAGCTCGGGGACCAGCTCGGGGGTCTGATGGTGGGCCCCAACTTCCGCGTCG  
GCAAGAAGATCGGCTGCGGCAACTTCGGGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTA  
TCAAATTGGAGCCGATCAAGTCCCGGGCCCCGAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCA  
CAGAGGGCGTCCCTCAGGTCTACTACTTCGGTCCGTGCGGGAAGTACAACGCCATGGTGCTGGAGCTGCTGGGGC  
CCAGCCTGGAGGACCTGTTTCGACCTGTGCGACCGGACCTTCACGCTCAAGACGGTGCTGATGATCGCCATCCAGC  
TGATCACGCGCATGGAGTATGTGCACACCAAGAGCCTAATCTACCGGGACGTGAAGCCCCGAGAATTCCTGGTG  
GCCGCCCGGGGACCAAGCGGCAGCATGCCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCG  
AGACCAAGAAGCACATCCCGTACCGCGAGCACAAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGC  
ACCTGGGCAAGGAGCAGAGCCGCGCGACGACCTGGAGGCGCTGGGCCACATGTTTCATGTACTTCCTGCGCGGCA  
GCCTCCCTTGGCAGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAAACGCGCCA  
CGCCCATCGAGGTGCTCTGCGAGAACTTCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACT  
TCTTCGAGAAGCCCGACTATGACTACCTGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTG  
ACTATGAGTACGACTGGGCCGGGAAGCCCTGCCGACCCCATCGGCACCGTCCACACCGACCTGCCCTCCCA<sup>1</sup>GC  
CTCAGCTCCGGGACAAAAACCCAGCCGCACAGCAAAAACAGGCGTTGAAGTCCACCAACGGGGAGCTGAATGCGG  
ACGACCCACGGCCGGCCACTCCAACGCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAAT  
GCTGCTGTTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACACAAGTGAACCCCTGGGCGCGTGACGCCCT  
GAATCTTCTCCGTGCAGCCCCCTTGGGGCGCGACCTTGTGCGAGGCCCTCGGGGCCACCCACAGCGGCCAGGGC  
CAGACCCTGGCTGGAAGCCAGAACGCAGACTGCAGGGGCGCGCCTGGCTCAGGCGGCCCCACCCCGGGACGTG  
GGGTCACTTCCTTCATGTAAGACTTTGGCCGAAATTTCTACACCTGTGTCTAGTCTCCCTCCAAGAGCATTAA  
CTATTTAAACAAGGAAAAGAGGAAAAA<sup>2</sup>AAACAGAGGCCCGCCCTACCCCACTCCTGCCCCCTCGTTTTCTTTG  
CTGAAGTGAGTAGTGTGATCCTGGAGGCCCCCGGCCTGGCCCCGCCAGCCGCCCCCGTTAGCGTCATAA  
AGTCCAGCTTGTCTCCCTCGATCCAAAGGCCGTTTTCTCGAGGGGAGGGCAGGCCCGGCCTGGAGGGGTGCTGTG  
GAGCTGTCTTGCCAGGCCCTCCTGGGAGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCAAGGCCTCC  
CCGAAACCAAGGGGAAGGCAGGGGTGGGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAAGCT  
CGGGCGCCGCGGGCACGGCTGCTGCAGTCTCTTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGC  
GGGTGCTTCTCGACGCACTTGCTCCCGGAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGTTGGT  
GTCACCCTGCTCGGCCCTCAGCCCTGCCGCGTGGGGCGCGTGGGCACGGAGCTTCTGCTCTCTGCTCCGACAC  
CCGGCAAGCAGCCGAGACAAAACGCCTTAAAGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCCTGGGGG  
CGGCCCTGGACTGGCGGGCGGTTCCCCAGTGGGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGC  
GTGCCAGGGCGGTGGCTGTGAGTCTAGTTTTTGTCTTACCAAGTGTACAGAAATGGCATTACGTTCTCTGAT  
GCTCCCTTGAAGCCATAGAATTTAGGGGCTTTTTTAAAAAATAAAAGAAAATGAAACC

313/5332  
**FIGURE 279**

ATGGCGGGCGGGTGGGAGCGGCGGGCGTGCCTCGTGCCCGCCGGGGTTCGGGGTTCGGCCCGGGCACGGGGGGCAGT  
CCCCGGGGCCAGCGCCAACGCCGCCGCCACCCGGCCCCCGGCAACGCGGCCGCCGCCGCCGCCGCCGCCGCC  
GCCGCCGCCGCCCTGGGCCGACGCCGCCGCCGCCGCCGGGACAGACGCGCAGGCCGCCGGGCGCGGAG  
CGGGCGGAGGAGGCGGCGGGCCCCGGGGCGGCGGCGCTGCAGCGCAGGCCCGGTACAACCTGGCAGGCCAGCAAG  
CCCACCGTGCAGGAGCGCTTCGCCTTCCTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG  
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCTGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTT  
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCGACGTGGAACCCGCTGCCTTCCTCGCACTGCTC  
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCGGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC  
GCGGTGCCAGCGCTCGAGGCCCATTCGCTGGAGTTCTGAAGAAGAACCTGCGAGCCGACAACGCCTTCATGCTG  
CTCACGCAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAACACTGCA  
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCTGGAGCGCGACACACTG  
GGCATCCGTGAGGTGCGGCTGTTCATGCGCTTGTCCGCTGGTCCGAGGCCGAGTGTACGCGGCAGCAGCTGCAG  
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTGCTTCCCGCTCATGACCATCGAG  
GAGTTCGCTGCAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCAGGTGGTCAGCCTCTTCCTGCACTTCACC  
GTCAACCCCAAGCCACGAGTGGAGTTTATTGACCGGCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC  
CGCTTCCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCAGTGACCGCATCAGGTCTCAGTCAACAAGCGC  
ATCTTCGTGGTGGGATTTGGGCTGTATGGATCCATCCACGGGGCCACCGACTACCAAGTGAACATCCAGATTATT  
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC  
GTCATGTTCAAGGAGCCGGTGGAGGTGCTGCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCCAGAC  
TCCCACTACGGCACCAAGGCCTGCGCAAGGTGACACACGAGTCGCCCACCACGGGCGCCAAGACCTGCTTCACC  
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCATCTTCTACACC  
TAGGCTGCCCCGACACCGACACCGCCCTCCCTCCGTGGGGATAGCCGAGCCCCAGGCCATCATCTGCTGCTGGGG  
CCCCCCCCACCACGCGGTGCCAGGCCCAGTGTCCTCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA  
GGACGGGGTTGCCCTGTGTTTACCACGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG  
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCCCACGGACCCGC  
AGCTCAGGGCGCCTGCCCACGTGCTGTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG  
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCCAGAGCCGTGGGTCCCAG  
ACCTTGCGTTCCCTTTTGTTCCTGTCCGTTTATCAGGACACGGGCCCCACCTGTACAGTGCCCCGAGGCCACCCAAG  
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTCACTGTGGGGACGG  
CCCCTGCCGGATAGGCCTAGCCCTGGCCCCAGGTGGTGAGCGGTTTGAGTGTCCGTTCTCATCCACCTGATGGGC  
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC  
CCTGTGCCCCAGAGCTCCCCTGCCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGGTCCAGGAGCACTGCTCGCC  
TGACATACTGTTGCCCTAGCCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCTCCCCA  
CTCCGGCCACGCCCCACCCACCCCGCGTGTTCGCTGTGACTCCTGGAACCTGCGTCTCTCCCAAGCCAT  
GGGAGGGGTGCTCTCTCAGACCATGCCCCCAGATGATTTTTTAAATAAAGAAACAAATGCACCTGC

314/5332  
**FIGURE 280**

GCTGGCGGGGCCCCGGACAGAAGATGGTGCAGAAGAAACCAGCCGAACTTCAGGGTTTTCCACCGTTCGTTCAAGGG  
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC  
AGCCCCGCTTGACATGCCCGCCAGCCAGCCATTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG  
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG  
CGCTCATGCCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA  
GCCAGGCCACATTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCTCT  
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT  
GAGCCACATCCACAAGCGCCGGCACTTCAAAGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT  
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAAAACATCCTCTGTGAGCACCCCAACCA  
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCTATCTC  
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGGTAGTGGAGGCCTTCAGCGAGGA  
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC  
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGCGAGGCCTGCCCTGCCAGAACATGCT  
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA  
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAGCACCCCTGGGT  
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCTCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC  
TCCCCACCCCTGTGCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAGTGAAGATCCTG  
GAGGACCCTGGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTT  
TAAAAGACAAAAAAAAAAAAAAAAAACCCTCAAAAGTTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCC  
AATGTACCAGGTGAACTGACGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTG  
TTTTGTAAAGATTTAATAAAAAGTCAAAAACTTGC



315/5332  
**FIGURE 281**

GGAATTCTGAGAGCTGATTCCCTGCCTTGTCTTCTCCACTGTTCTGAGGAATCCGAGAAGAGCAGAGCGGAGGG  
AGCCCCAGACACGGTCCGCGGGAGAGCTGTGGGGCTTGGTGAGTGTTTCGTGGCCTCTCGGGTTGGTCAGCACCC  
CCAGCCAGCTGGCCAGGACCCCTCTACAGAAGTCCAGGAGAGCAGGCGTCACCAAGATGTTCCAACCCCTTCCTG  
AAGCAAGTCTTCAACAAGGACAAGACATTCCGCCCCAAGCGCAAGTTTGAGCCAGGCACCCAGCGCTTCGAGCTG  
CACAGAAGGCGCAGGCGTCGCTGAACGCCGGGCTGGACCTGCGGCTGGCCGTGCAGTTGCCCCCGGGCGAGGAC  
CTGAACGACTGGGTGGCTGTTACGTGGTGACTTCTTTAACC GCGTCAACCTCATCTACGGCACCATCAGCGAC  
GGCTGCACGGAGCAGTCCCTGCCCCGTCA GTCGGGGGGGCCCCAAGTATGAGTACCGCTGGCAGGATGAGCATAAG  
TTCCGGAAGCCACGGCACTCTCCGCGCCAGGTACATGGACCTGCTGATGGACTGGATCGAGGCGCAGATCAAC  
AACGAGGACCTCTTCCCCACCAACGTTGGCACTCCGTTTCCCAAGAACTTCCTGCAGACGGTGCGGAAGATCCTG  
TCGCGGTGTTCCGCGTGTTCGTGCACGTCTACATCCACCACTTTGACCGCATCGCGCAGATGGGCTCCGAGGCC  
CACGTGAACACCTGCTACAAGCACTTCTACTATTTTCGTCAAGGAGTTTCGGCCTCATCGACACCAAGGAGCTGGAG  
CCACTGAAAGAAATGACCGCCCGGATGTGCCACTGAGAGCCCCGCGGGTCTCCCGGTGCCCCGAACCGCCGCTGGG  
GCCTCGGAGACTTGAGGAGGACGCTCTGGAACCATCATCCCGCTTCTCTCCGGCCTGAGCATCTCAGGGAGACC  
AGGGGCCGAGCCGCTGAGCAGGTGTTGGTCCTCAGGAGCTCCAACCCCGACGGCAGATGCCTTCCTCAGTCTCG  
AGCCTCAGTCTCCCGTCTGGGACTAAACGTGAACCTCTGTAATTCATGTGTTACTAGCAACCGGAAAAGCCAC  
TGTGTTTTTAAACCACTTCCACTTTCCAGGAGGCTGGATGGCTTCCAGGGTCACTCCTTGCCCTGGGTGGCTCCC  
AGGCTCCTGGAACCTCTGCCTCCACCTCGCTGGGGAGCCCCCAGGGCTGCTGTGGCCACAGCCCTGCCTGGGCCT  
GTCTCTCAAGGGCACCCAGCTTGCTCGGCCTCCTACATGTCTCCGTTGGGGAGGCAAGAGGCTGAGGGCTTCC  
GAGCCCCTGAGAGCGGACATCTCCTCCCGCAGGCCTTTACTCCGCACTCCCCACTGGCAGCCGCTGGTGTCTCTT  
CACACAGAGGCACAACCTGGACCCAGGCAGCCTCTTTCTCCTCCCAATCTCTTCCATTTTTCTACAGATTTT  
TTTTTTTTTGGTCATACTAGAGACAGGGTCTCGCTGAACCTCCTGGCCTCCAGTGATCCTCCATCCTCGGCCTCC  
CAAAGTGCTGGAATCACAGGGGTGAGCCACCGCACCCAGCCCTCTCTCTTCTCAATGCACTCTGCTTCTTCCGT  
TCTTCCGAAACATTAGCTGACTGTATCCAGGGCTTCTGACTCCTGGGACCCACGTCCTGCACCCCGGCTTC  
TGACTCATTTTCTAAGGGCCCCCTTTGTGTATCATAAAGGGTTTGATTTTTATAGTCACATTTACAACCATCTTGA  
GATTTTTATTTTTTTTGAACGGAGTCTCCCACTGTGCGCCAGACTGGAGTCCAGTGGCACAATCTCGGCTCACTG  
CATCCTCCACCTCCTGGGTCAAGTGATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCGCA  
CCACGCCCAGGAAATTATTGTAGTTTTAGTAGAGACAAGATTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCT  
GACTTCAGGTGATCCGCCTACCTTGGCCTCCAAAAGTGCTGGGATTACAGGCATGAGCTACTGCACCCGGCCTAA  
CCAGGCTGGAGTGAGTGGTGGGATCTCGGCTCACTGCAAGCTCCGCCTCCAGATTACGCCATTCTCCTGCCT  
CAGCCTCCCCAGCAGCTGGGACTACAGGCACCCACCGTCAACCCGGCTAATTTTTTTGTATTTTAGTAGAGACA  
GGGTTTACCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTTGTGATCCACCAGCCTCAGCCTCCCAAAGTGC  
TGGGATTACAGGCGTGAGCCACTGTGCCCGGCCAAGAATTTTTTTATCGATAACATAGTGAGCTCTCTGCCTCTT  
CGGAACGATGTCCACTTTGCTTATGATCAACCCAAGCAGGACTCTCTCTCCCTGGACGCCTCTCCCCTGGTCTG  
GAATCTTCCAGTTCTGCCAGAATTGGCCTTTCCAGATGCTGCAAACTTCCAGTTGAACCCCTTTTTCTGTGTGG  
CCCCTGGGGCTGCGAGACCAAAATCCATGAGTTCTGTGTACCCTAGACCTTTGGAAGGTGAGAGCAGGGCCCTGA  
GAAAAGGCAGCCACCTCCTCTCCCTGGCTGAACCCCTGCCACCCTACTCCTCACCAGAATTGTCAGTGGCCTTTC  
ACCACAGTGGTCCCTTCTGCCTGAGCCCTGCACTGTCCCAGACCACACAGAAGTCTGGTCACCTCTGGGCGCCTG  
GGATGGTCAACGAAGAGAAGCACGCTGTCCCGTCTCTCCTGGCTTCTGCCAGAAAATCGAACAAGTGCAATTAA  
CACACTGTTACTGCCGAAGCCTGAAACTCCCAGGACTTGTCTTGATCCTTCCAGAAACCACAGGTCCGGCACT  
TGGAGCCCCCGGAGAGGGACCTCCCAGCCGAGCCCTCAAAGAACTCCATGAAATCAGGAACTGCTTGATGAAAT  
GTATCTCCTTGTACCTGGAAGATGAAGCCCAAACCCACACCTCTGTCTCCCCAGGGCTCGGGATGTCTCCAG  
CAGCCCGGCCACGCAGCTTCCAGGTGGGCTCGGGGAGGTGGGAGCAGGGACCATCTCTGTCCCTCCACCTCA  
CTCCATCCACCTCGGAGACCACCTCCCCAGCCAGATACGGAATAAACTACAGACGCAGACGTCGG

316/5332  
**FIGURE 282**

CTGAAGGGTGTGGCGCGAGCAGCGTCGTTGGTTGGCCGGCGGGCCGGGACGGGCATGGCCCTGCTGCTGTGC  
CTGGTGTGCCTGACGGCGGCGCTGGCCCCACGGCTGTCTGCACTGCCACAGCAACTTCTCCAAGAAGTTCTCCTTC  
TACCGCCACCATGTGAACCTCAAGTCCTGGTGGGTGGGCGACATCCCCGTGTCAGGGGCGCTGCTCACCGACTGG  
AGCGACGACACGATGAAGGAGCTGCACCTGGCCATCCCCGCCAAGATCACCCGGGAGAAGCTGGACCAAGTGGCG  
ACAGCAGTGTACCAGATGATGGATCAGCTGTACCAGGGGAAGATGTACTTCCCCGGGTATTTCCCCAACGAGCTG  
CGAAACATCTTCCGGGAGCAGGTGCACCTCATCCAGAACGCCATCATCGAAAGCCGCATCGACTGTCAGCACCGC  
TGTTGGCATCTTCCAGTACGAGACCATCTCCTGCAACAACTGCACAGACTCGCACGTGCGCTGCTTTGGCTATAAC  
TGCGAGTCCTCGGCGCAGTGGAAGTCAGCTGTCCAGGGCCTCCTGAACTACATAAATAACTGGCACAAACAGGAC  
ACGAGCATGAGCCTGGTATCGCCAGCCTTAAGGTGTCTGGAGCCCCCACACTTGGCCAACCTGACCTTGGGAAGAT  
GCTGCTGAGTGTCTCAAGCAGCACTGACAGCAGCTGGGCCTGCCCCAGGGCAACGTGGGGGCGGAGACTCAGCTG  
GACAGCCCCCTGCCTGTCACTCTGGAGCTGGGCTGCTGCTGCCTCAGGACCCCCTCTCCGACCCCGGACAGAGCTG  
AGCTGGCCAGGGCCAGGAGGGCGGGAGGGAGGGAATGGGGGTGGGCTGTGCGCAGCATCAGCGCCTGGGCAGGTC  
CGCAGAGCTGCGGGATGTGATTAAAGTCCCTGATGTTTCTC

317/5332  
FIGURE 283A

GGGGCCCGGAGCGGGATCGCGGCACCTGCCGAGCGGGTCGCCGCCCTCTGCCGCGGTCTTGGACCCCCGCCGCCG  
CCTGGCCTGGGAGCTTGCCCCGCCGAGCGGCCGCGGAGCGCGCGCTCCGCGGGCGGCAGGCACGGGCCCCGGGC  
CCCCTCACGGCGCCCAGCGCGGGCCTCCCAGGCAAAAGCCCGTGGGCGCGCGCATGGCCCTCAAGATGGTGA  
AGGGCAGCATCGACCGCATGTTGACAAGAATCTGCAGGACTTGGTCCGCGGCATCCGTAACCACAAGGAGGACG  
AGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGCTGAAGCAGGACAACATAGCGGTGAAGGCGA  
ACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACATCAGCTGGGCGCCTTCAACATCATAGAAG  
TGATGAGTGCCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCGCTGCTTCCCAGAGCTTTCACGAAGGCACCG  
ACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCAGCCCCAGCCAGTACGACACAGGTGTTGCAC  
TGACGGGTCTGTCTGCTTCGTACCCCCAGACCTTGCCAGAGACCTGGCAAAATGACATCATGACACTGATGTCAC  
ACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCGAGCCCCCTACCAATCTCATCCACAGCACGTCTGCCA  
TGTCTCTCTCTATGAATGTGTGAACACCGTGATTGCAAGTCTCATCTCGCTGTCTTCCGGCATGCCCAACCACA  
GCGCCAGCATCCAGCTTGTGTTGAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTTGAAGTACCTGG  
GGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAAGTCCCACAAGGACCTCATCTGCAAGT  
GCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGAACC  
TGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGCTCA  
CCAAGATCATTGACATCTGCAGCCAGTCCAACCTACCAGTACATCACCACCTTCGAGTGGTACATCAGCATCCTGG  
TGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAATGCTGGACGTGGCCATCAGCGG  
TGAAGGCCATCCGCAAGTTCGCCGTGTCCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCAGCA  
CCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCCTGGATCTGCGGGGAGTTCTCAGAGCATCTGCAGG  
AACCACACCACACTTTGGAGGCCATGCTGCGGCCCAGAGTACCACGCTGCCAGGCCACATCCAGGCCGTGTATG  
TGCAGAACGTGGTCAAGCTCTACGCCTCCATCCTGCAGCAGAAGGAGCAGGCGGGGAGGCAGAGGGCGCTCAGG  
CCGTACCCAGCTCATGCTGGACCGGCTGCCCCAGTTTGTGAGAGCGCAGACCTGGAGGTGCAGGAGCGGGCGT  
CCTGCATCCTGCAGCTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCCTGTGGCAGAGGAGGTGAGCG  
CTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCCAAGGCCAGAAGAAGTTCCAGTCCCCGAAGGCCTGGACC  
TGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTACAGGACGAGAGGCCCAGGGCCGTCTTCCACGAGG  
AGGAGCAGCGGCGTCCCAAGCACCGGCCGTGCGAGGCGGACGAGGAAGAGCTGGCTCGGCGCCGAGAGGCCCGGA  
AGCAGGAGCAGGCCAACAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCCCGG  
GCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCCTTGAAGGTTCCAGGGCTGCCTATGTGAGATC  
AGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGAAGG  
AGAAGGAGAAGAAGGGCAAGCGCGCCACAGCTCGCTGCCACGGAGAGCGACGAGGACATCGCCCCCTGCCCAGC  
AGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCACGACGAGGATGACAAAGACCCCAACGACC  
CCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAACTGCCTATTAGAAACACAGAA  
ACACCGAGACCTCAAAATCCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAGAAGAAAG  
AGAAAAAACACAAAGAGAAAGAGAGAGACAAGGAGAAGAAGAAGGAGAAGAAGGCTGAGGACCTGGACT  
TCTGGCTGTCTACCACCCACCGCCTGCCCCCGCCCCCGCCCCGTTCCATCCACGGACGAGTGTGAGG  
ACGCCAAGACGGAGGCGCAGGGCGAGGAGGACGATGCCGAGGGGCAAGACCAGGACAAGAAATCTCCCAAGCCTA  
AGAAGAAGAAGCACAGGAAGGAGAAGGAGGAGCGGACCAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAGGCA  
GCGAGGAGGACGCGGGGAGCCGTTGAGAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCCTGAGTCCAGCTACT  
CCCTCCTCGCTGAAAAATTCCTATGTTAAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGGTCA  
CTGTGGCCATCGTGCTGGAGAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGTGAGTCACTCA  
ATGCCAGGATGGCCCGGCCGAGGGCTCCTCCGTCCACGATGGCGTCCCCGTGCCTTTCCAGCTGCCCCCAGGCG  
TCTCCAACGAAGCCAGTATGTGTTACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCCCTGTCTT  
TCATTGCCAAGAATGACGAGGGTGCAGCCACGAGAAGCTGGACTTCAGGCTGCACTTCAGCTGCAGCTCCTACT  
TGATCACCACCTCCCTGCTACAGTGACGCCTTTGCTAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAATCA  
AAGTCGATGGCATTCCGATGTCTTCCAGAATCTTCTGGCGAAGATCTGTTTTACCACCATTTCCTGTTGG  
AGCGAGTGGACTCCTGCGCCTCCATGTACAGCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAGGAGG  
GTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGACTCCACGCTACTGAGCAACTTGTTAGAAGAGATGAAGG  
CGACGCTGGCCAAGTGTTCAGAGCTGCCTGCGAGCCCCGACACCCCGCGGAGCACGTACCCAGGGACCGCAGC

318/5332  
**FIGURE 283B**

CCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCC  
GCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCATT  
TCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCACCTGGGTCTGTGCCCTGCCCCGC  
GCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCTGGGCCAGGGCCTGATGGGCACCACGTGAGG  
GGCACTTGTTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCCTGCTTTTGACCCAAAGGTCCTGACGG  
TTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTGCGCCAAGGTTTCTCTCCCAGAACCCACAGTGGGAAAGCGG  
TCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGACTGGGTCTTGGGATCCCAGGCCACGCGCCA  
GCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGGACGGGGTGGGTGA  
GGCCTCTCTGCCACCCGTCTTCTGGTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCCCTG  
CTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCCAGCACCTTAGGAAGGCCAGGCAGGGCCTGGAAG  
CAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCTCAC  
AGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGACCC  
TTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAAGTGTCACTTTAGCATGTAATCCATTACAGAA  
TCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCCCGT  
ATAAAGAGAGAGACATATCACGCTGCTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAAACAGG

319/5332  
**FIGURE 284A**

GCGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT  
CAACAACCTACGAGCCCTTCTCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCCGAGATGATTGATGA  
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTTCGTGCTCCAGGTTGCTGC  
TGCCACCAACTGCAAACATCACTATGGCGTCGAGAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG  
CGAGTTTCAGGAAGTGGATGAAATGGTATGAAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC  
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTTATATTTGTGAATAATTTTGCCTTTGGTCTGAGGTGGA  
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCTCGAAACCCCTTGCACCTCT  
GAAC TTCAGAATAAACAGTAGAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCTGAA  
GGGCTCGGTGTCTGTGGACGGGGGAAGCCAGTCTCCTACTACCTGCACACTATCGACCGCACCATACTTGAAAATA  
TTTTTCTAGTCTGAAAAACCCAACTCAGGGAGGAACAGGAGGCAGCCCGGCGCCGCGCAGCAGCGCGAGAGCAA  
GAGCAACGCGGCCACGCCCCTAAGGGCCAGAGGGCAAGGTGGCCGGCCCCGCGACGCCCCCATGGACTCTGG  
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCCAAAGCCCGCAAGAAGAAGCTAAA  
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA  
GCCCCAAGAAGAACAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCCCTCCTCACCCCA  
GGATGCCTACAGATCCCCCTCACAGCCCCGTTCTACCAGCTACCTCCGAGCGTGCAGCGGCCTCCCCAACCCGCT  
GCTGGTGGCGCCACCCCGCCGCTGCAGAAGCTTCTAGAGTCCTTCAAGATCCAGTACCTGCAGTTCTCTGGC  
ATACACAAAGACCCCCCAGTACAAGGCCAGCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAAGCGCCAGCT  
CCTGGGTGCGGCTCAGCAGCTCCTCAGCCACTGCCAGGCCAGGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA  
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCCAATA  
CCAGCAGCTGCGGGAGCAGTCGGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTTGAGCTGCT  
CAAGGCTCGCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCTGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC  
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG  
CCAGCGGCAGCAGGAGCTCCTGCAGCTCAAGTCTGTGTGCCGCTGACGACGCCCTGTCCCTGCACCTGCGTGG  
GAAGGGCGCCC TGGGCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC  
GCTGCCTCACTTGAGCAGCATGAGCCCGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT  
GCTGAGCCGGCCTTCGTGGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCTG  
TACCCCTAGCCACGTGCGCCGGCCGCGCCTGGAGAAGCTGTCTGGCCTAGCCGACCCGACTACACTAGGCTGTC  
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGAGGCCGGCTGCCAGTGAGCT  
GCATTGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT  
GAGCCCTCAGGACCCGCGGCCCTGTCCCTGGGGCCTTGAGCTTGCTGGAGAGAAGAGCAGTGAGAAGGGCCT  
GAGAGAGCGCGCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCCTGCA  
GCCCCAACAAGCTCCCGGTGAGCATTCCCTGGCCAGCGTGGTGTGCCAGCCGCGCCGAGAGGGCGAGGAGCAC  
CCCCAGTCCCGTGTGCTGCAGCCCCGTGACCCCTCGTCCACACTTGAAAAGCAGATTGGTGCTAATGCCACGGTGC  
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGCAGGCTTCTCCTACGCTGGCTCGGTGGCCATCAGCGGGCCTTGGC  
GGGCAGCCCGGCCTCTCTCACACCTGGAGCCGAGCCGGCCACCTTGGATGAGTCTCCAGCTCTGGGAGCCTTTT  
TGCCACCGTGGGGTCCCGCAGCTCCACGCCACAGCACCCCTGCTGCTGGCACAGCCCCGGAACCTCGCTTCTGCTG  
CTCTCCCGCCACAGCTCTCCTCCAGTCCCGGCTTGGTGGGGCGCCCGAGGGCCGTTGCCCGAGGCCAGCAA  
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTACCATCAC  
CACTGGTGCGGGAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGGACTG  
TGTGCCGAGCCACGGGCAGGACAGTCGAGGCGCGGCCGGCGGAAGCGAGCATCTGCGGGGACGCCAGCTTGAG  
CGCAGGCGTGTCCCCAAGCGCGGAGCCCTGCCGTCCGTGCTGGCCTTTTACACAGCCTTCGGGGTCTCCCT  
CAACCTCAACTCCATGGTCAGTAACATCAACCAGCCCTGGAGATTACAGCCATCTCGTCCCCGGAGACCTCCCT  
GAAGAGCTCCCTGTGCCCTACCAGGACCACGACCAGCCCCCGTGTCAAGAAGGAGCGGCCTCTGAGCCAGAC  
CAATGGGGCACACTACTCCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCAGCAGTGCTCGAAT  
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCGAAAACCTTGGAAAAATGGTGGTGGCTTGGC  
GGGAAGGAAGCCGCGCCCGCGCGGAGCCAGTCAATAGCAGCAAGTGAAGTCCACCTTCTCGCCCATCTCCGA  
CATCGGCTGGCCAAGTCGGCGGACAGCCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTACGTT  
CCGGCCCGCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCAGGAAAGGCTTTCCCGGCTCCCT

320/5332  
**FIGURE 284B**

GTCGGGGGCTGACGGACTCAGCCCGGGCACCAACCCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA  
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGGCCCTGAGCTCCCC  
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCCTTTCCTGAGCAAGAGGCAGCTGGACGG  
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCCAC  
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGGACCGCGAGGTCGACCTCAAGAATGGCCACAA  
CCTCTTCATCTCTGCGGCGGCCGTGCCTCCCGGAAGCCTCCTCAGCGGCCCCGGCCTGGCCCCGGCGGGCGTCTC  
CGCAGGCGGGCGCGGCGTCCCTCCGCCCAGACGCACCGGTCTTCTGGGCCCCCTTCCCGCCGGGACCGCAGTTTCG  
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTC  
TGTGCCGGCCCGCGCAGGCCTGGTGCACGTGTCTCGTCCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG  
CTTTTCCGGGGTGGCAGGCGGCACAGTTGGAGGTAACTAGGATTTCACCTCAACCGCGAGACCTATGCAAGGAC  
GGTGTGGACCAACTCGCGCCCGCGGCATGGTGGCCGCGGCTGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA  
GGACGGACGGGAGCTCCACTGTGAATCGCGGCGACGCGCCGAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCTG  
ATAGTTTTAGATAAAGTATTTATCATTTTTTAAAAAGTATAAAACAATTCTGACTTATTTTTATTCCATCTAAGTGG  
TAAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG  
GCCCCGCCAGCGGATTCGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG  
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGCGCGGCTCCCCGACGCGCTGCT  
CCCGTACCAAAGGCAGGCCCGTCCGCCACCACATTCTCGGAGGCCTCCCCGCGGCCTGAGCCCCCTTCTGAGCGC  
CCTGGCGCCTGCCCTGAGCTCTTACCTTTACCCCGGCACTGTGAACCCCAAGACTGTTACCCCTCCGGGGCGTG  
GGTTGCGCCCTTGCAATGTGAAGGGGCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGTGTGAGGA  
CGGCGCGGGCACGTTGAACAAGTGCATTTACTTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA  
TGCGGGGCGAGGCTGTCTGTTGGTCCCTTGGTGTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT  
ATAGAGATGTGATGAGAATTTATAAATTTATAGATTTGACAGCTTTTATTTTTAGATGGTATAATGCACAGTGA  
AGAGGAAAGAAAAGCGAGGGGAAAAAACCTTATTTATTCAAACAGTGCACAAAATGGCCCCAGCGTCAGCCCGA  
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCCTGCCTGCCCCACATCCCTTC  
CTGTACAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCAGCTGCTGTGGGTGTGCTGGGGC  
CAGGGTGCAGTGTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTCGGCCCCCACTCTGCAGCCTT  
GGCGGGTGCCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGGTGTAGCAGGCAGGCAGGGCCACTCCAG  
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG  
GATCTGGGA

321/5332  
**FIGURE 285**

GACATTTTGGCGCCGGCCCCAGCCTGAGCGGGGACGGCGGCCGGGAGGGCGCGGCCCGGGTTCCCGTTCCCCGC  
GGAGCCATGCGGTACAACGAGAAGGAGCTGCAGGCTCTGTCCCGGCAGCCGGCCGAGATGGCGGCCGAGCTGGGC  
ATGAGGGGGCCCCAAGAAGGGCAGCGTGCTGAAACGGCGGGCTGGTGAAGCTGGTGGTGAATTTCTCTTCTACTTT  
CGGACAGACGAGGCCGAGCCCGTCGGAGCCCTGCTGCTGGAGCGCTGCAGAGTCGTCCGGGAAGAGCCCGGCACC  
TTCTCCATCAGCTTCATTGAGGACCCTGAGAGGAAGTATCACTTTGAGTGCAGCAGCGAGGAGCAGTGTGAGGAG  
TGGATGGAGGCTCTGCGTCGGGCCAGCTACGAGTTCATGCGGAGAAGCCTCATCTTCTACAGGAACGAAATCCGG  
AAGGTGACGGGCAAGGACCCCTGGAACAGTTTCGGCATATCCGAGGAGGCCAGGTTCCAGCTGAGTGGCTTGACG  
GCGTGAGCGCAGGGCACGGTGGTCAGCGTGCAGCGGGACGGGACTGGCCCTGCCAGCCATGAATCGCTTGGCCA  
TGCCTGGATCTGTTTTGTTTTGGTTTTTGGTTTTTGGGTCAGGGTTTCACTGTGTTGCCAGGCTAGAGTGCAGT  
GGTGCCACAGCTCACTGTGACCTTGACCTTCTGGACTCAAGTGATCCTCCTGCCTCAGCTTCCCAAGTAGCGGGG  
ATCACAGGCATGAGCCGCCACACCCGGCCATCACACCTGGATTTTCAAGTGGGAGGTTTTTGGTTTGGAGACATCC  
AAAGCCTGAAGCCAGGTGGGTGTGGGCAGGGGCTGCATTTTATGAACTGCCAGCAAGCTGCGCTCCCTGGGGC  
CCCAGGATCCACCTAACTGGCCTGGCACCTGGTGCCACGTGCTGCTGCCGCCAGGATATGCGCCTTCCACAGGT  
GCCCTGCCTGAGTTGTGTGCATCCAGGGGCTGGTGAGCCCCCAGGCTGGTGGCATGGCCCCCTGCCCCGTGCT  
GAATGAATGTACAGAGCCAGACAAAGCTGTGAATGGCCTAGGGGCTGAGTCCACACCAGCTGTGAATTCTCCTG  
CAGACAGGAGGGCCCTGGCTGTGCACCTGGGGAAGTGGTTGCCCTGGGGCCAGGGTGCTTGTTCTGTTCAAATAA  
AGGTACCTCTTTTC

322/5332  
**FIGURE 286**

ATGGACTTCCAGCATCGCCCCGGGGGCAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGAC  
CGCAGGGAGCGCCTCCGGCAGCTGGCCCTGGAGACCATCGACATCAACAAGGACCCGTA<sup>CTT</sup>CATGAAGAACCAC  
CTGGGCTCCTATGAATGCAA<sup>ACT</sup>CTGCCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGG  
AAGAAGCACCAGACCAACCTGGCCCGGCGAGCAGCCAAGGAGGCCAAGGAGGCCCTGCCAGCCCGCGCCTGAG  
AAGGTCAAGGTGGAGGTGAAGAAGTTTGTGAAGATCGGCCGCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCG  
GAGATGGGCCAGCAGAGCCTCCTCTTCCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTCACCGC  
TTCATGTCTGCGTACGAGCAGAGGATCGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCCGAGCCC  
TACGAGACCATTGCCTTCAAGGTGCCGAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAAC  
CGGGAGACCAAGCAGTTCTTCCCTCCAGTTCCACTTTAAGATGGAGAAGCCCCCGGCTCCACCCAGCCTCCCTGCT  
GGCCCCCCTGGGGTGAAGCGGCCTCCACCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCT  
TTGCCACCGCCCCCGCCAGGAGGCCTGCCTCTGCCACCCATGCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCG  
GGACCACCCAGCTACCCCGCCAGCTCCAGGGGTCCACCCCGCGGCCAGTGGTGCATCCCCCTGCATCTGGG  
GTCCATCCCCAGCTCCTGGCGTCCACCCCGAGCTCCTGGCGTCCATCCCCAGCCCCTGGGGTCCACCCACCA  
ACCTCTGGGGTCCACCCCGAGCTCCTGGAGTCCACCCTCCAGCCCCCGGGTTACCCACCAGCCCCCGGAGTC  
CACCCACCAGCCCCCTGGGGTTCACCCACCAGCCCCAGGGGTCCATCCTCCCCATCAGCGGGGGTTACCCCCAG  
GCCCCGGGGTGCACCCAGCAGCCCCCGCGTTACCCCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATG  
CACCTCAGGCCCCGGGGTCCACCCCAACCTCCCGGGGTCCATCCGTGGCTCCTGGGGTCCACCCTCAGCCT  
CCGGGAGTTACCCCTCAAATCCTGGGGTGCACCCCAACTCCCATGCCCCCAATGCTGAGGCCCCCACTTCCC  
TCCGAAGGCCAGGGAACATACCTCCCCCTCCCCAACCAACTTGA



323/5332  
**FIGURE 287**

CACATCAGGCCAGCTCTATCACTGGGGAGGGAGATAGGCTGCCAGGGACAGAAAGGGCTCTTTGAGAAGGCCAC  
TCTGCCTGGAGTGGGGGCGCCGGGCAGTGTCCCCAAGGTCGCGGCAGAGGAGATAGGGTCTGTCTGCACAAA  
CACCACACCTTCCACTCGGCTCACTTAAGGCAGGCAGCCCAGCCCCTGGCAGCACCCACGATGCGGGACCTGCCT  
CTCACCAGCCTGGCCCTAGTGCTGTCTGCCCTGGGGGCTCTGCTGGGGACTGAGGCCCTCAGAGCAGAGGAGCCA  
GCTGTGGGCACCAAGTGGCCTCATCTCCGAGAAGACTTGGACTGGCCTCCAGGCAGCCCACAAGAGCCTCTGTGC  
CTGGTGGCACTGGGCGGGGACAGCAATGGCAGCAGCTCCCCCTGCGGGTGGTGGGGGCTCTAAGCGCCTATGAG  
CAGGCCTTCCTGGGGGCGGTGCAGAGGGCCCGCTGGGGCCCCGAGACCTGGCCACCTTCGGGGTCTGCAACACC  
GGTGACAGGCAGGCTGCCTTGCCCTCTCTACGGCGGTGGGGGCTGGCTGCGGGACCTGGGGGGCAGCGCCTG  
GTGGTCTACACCTGGAGGAAGTGACCTGGGAGCCAACACCCTCGCTGAGGTTCCAGGAGCCCCCGCCTGGAGGA  
GCTGGCCCCCAGAGCTGGCGCTGCTGGTGTGTACCTGGGCCTGGCCCTGAGGTCACTGTGACGAGGGCTGGG  
CTGCCGGGTGCCAGAGCCTTGCCCCCTCCCGAGACACCCGCTACCTGGTGTAGCGGTGGACCGCCCTGCGGGG  
GCCTGGCGCGGCTCCGGGCTGGCCTTGACCTGCAGCCCCGCGGAGAGGACTCCCGGCTGAGTACCGCCCGGCTG  
CAGGCACTGCTGTTTCGGCGACGACCACCGCTGCTTACACGGATGACCCCGGCCCTGCTCCTGCTGCCGCGGTCC  
GAGCCCGCGCCGCTGCCTGCGCACGGCCAGCTGGACACCGTGCCCTTCCCGCCGCCAGGCCATCCGCGGAATC  
GAGGAGTCGCCACCCAGCGCAGACCCCTTCCTGGAGACGCTCACGCGCCTGGTGCGGGCGCTGCGGGTCCCCCG  
GCCCCGGGCTCCGCGCCGCGCCTGGCCCTGGATCCGGACGCGCTGGCCGGCTTCCCGCAGGGCCTAGTCAACCTG  
TCGGACCCCGCGGCGCTGGAGCGCCTACTCGACGGCGAGGAGCCGCTGCTGCTGCTGCTGAGGCCACTGCGGCC  
ACCACCGGGGATCCTGCGCCCTGCACGACCCACGTCGGCGCCGTGGGCCACGGCCCTGGCGCGCCGCGTGGCT  
GCTGAAGTGAAGCGGCGGCTGCCGAGCTGCGAAGCCTCCCGGTCTGCTCCGGCCACAGCCCCGCTGCTGGCG  
CGCCTGCTGCGCTCTGCCAGGTGGCCCCGGCGGCCTCGGCGATCCCTGCGAGCGCTGCTGCTCCTGAAGGCG  
CTGCAGGGCCTGCGCGTGGAGTGGCGCGGGCGGGATCCGCGCGGGCCGGGTGCGGCACAGCGCAGCGGGGGCC  
ACCGCCGCCGACGGGCGGTGCGCGCTGCGCGAGCTCAGCGTAGACCTCCGCGCCGAGCGCTCCGTACTCATCCCC  
GAGACCTACCAGGCCAACAAATTGCCAGGGCGTGTGCGGCTGGCCTCAGTCCGACCGCAACCCGCGCTACGGCAAC  
CACGTGGTGTGCTGCTGAAGATGCAGGTCCGTGGGGCGCCCTGGCGCGCCACCCTGCTGCGTGCCACCGCC  
TACGCGGGCAAGCTGCTCATCAGCCTGTGCGAGGAGCGCATCAGCGCGCACACGTCGCCAACATGGTGGCCACC  
GAGTGTGGCTGCCGGTGAACCCCTGCGCCGCGCGGACTCCTGCCCCGAGGGTCCGGACGCGCCCCAGCTGCGGCC  
CTTCCCATATTTATTTCGGACCCCAAGCATCGCCCCAATAAAGACCAGCAAGCAACCGG

324/5332  
**FIGURE 288**

TGCGAACGGCGAGCAGCGGCGGCGGCGGCGGAGAGACGCAGCGGAGGTTTTCTTGTTTCGGACCCAGCGGCCGG  
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCCAGC  
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTAAGCCTGCACAGCCGCGGCGGCAGCAGCAGTGAGAGTTCC  
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTTGATGCCCCTCACCCACCCCT  
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAACTTTTCAGCTAACTTATCTACTCCGATGATCG  
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC  
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGGCTGCCCGA  
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTG  
CTTCCACAAGAACC GCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTGGGCTTTGAGATTGTGAGACC  
GGGGCATCCCCTTGTTCCCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTTCGAGAGAGAGTCTTCGGGAGA  
GGAGGAGGAGTAGGGCGCCTCGGGGCTGGGCATCCGGCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA  
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCGCGATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG  
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTTGCTTTAATTCTAAATAAAATTTATA  
TTTTACTTTTT

325/5332  
**FIGURE 289**

GCCGTTGGTTGCGGCGGGACACCGCCGACATGCGGCGAGCGGTGGCGGCTGCGCTGGCGCGGCTTTTGGCGGCCT  
TTCTGCTCCTCGCGGCCAGGTGGCCTGTGAGTACGGCATGGTGACGTGGTCTCCAGGCCGGGGCCCCGAAG  
GCAAAGACTACTGCATCCTCTACAACCCGAGTGGGCCCATCTTCCGCACGACCTCAGCAAGGCATCTTTCTGCG  
AGCTGCGCAACTGGACGGCCTCCCTGCTCTGCTCCGCGAGCCGACCTCCCCGCCCCGTGGCTTCAGCAACCAGATCC  
CGCTGGTGGCGCGGGGAACTGCACCTTCTATGAGAAAAGTGAGGCTGGCCCAGGGCAGCGGAGCACGCGGGCTGC  
TCATCGTCAGCAGGGAGAGGCTGGTCCCCCGGGGGTAATAAGACGCGAGTATGATGAGATTGGCATTCCCGTGG  
CCCTGCTCAGCTACAAAGACATGCTGGACATCTTCACGCGTTTCGGCCGCACGGTGAGGGCGGGCGCTGTATGCGC  
CTAAGGAGCCGGTGTGACTACAACATGGTCAATCATCTTCATCATGGCTGTGGGCACCGTCGCCATCGGCGGGCT  
ACTGGGCCGGGAGTCGGGACGTGAAGAAAAGGTACATGAAGCACAAGCGCGACGATGGGCCCGAGAAGCAGGAGG  
ACGAGGCGGTGGACGTGACGCCGGTGATGACCTGCGTGTGTTGTGGTGATGTGCTGCTCCATGCTGGTGCTGCTCT  
ACTATTTCTACGATCTCCTCGTGACGTGGTCAATCGGGATCTTCTGCGCTGGCCTCCGCCACCGGCCCTCTACAGCT  
GCCTGGCGCCCTGTGTGCGGCGGCTGCCTTCGGCAAGTGACAGATCCCCAACACAGCCTGCCCTACTTCCACAA  
GCGCCCGCAGGCCCGTATGCTGCTCCTGGCGCTCTTCTGCGTGGCCGTGACGCTGGTGTGGGGCGTCTTCCGCAA  
CGAGGACAGTGGGCCTGGGTCCCTCAGGATGCCCTGGGCATCGCCTTCTGCCTCTACATGCTGAAGACCATCCG  
TCTGCCACCTTCAAGGCCTGCACGCTGCTGCTGCTGGTGTGTTTCTCTACGACATCTTCTCGTGTTCATCAC  
GCCCTTCTGACCAAGAGTGGGAGCAGCATCATGGTGGAGGTGGCCACTGGGCCCTCGGACTCAGCCACCCGTGA  
GAAGCTGCCCATGGTCTGAAGGTGCCAGGCTGAACTCTACCTCTGGCCCTGTGTGACCGGCCCTTCTGCCT  
CCTGGGTTTTCGGAGACATTTTGGTGCCAGGGCTGCTGGTGGCCTACTGCCACAGGTTTGACATCCAGGTACAGTC  
CTCCAGGGTATACTTCGTGGCCTGCACCATCGCCTATGGCGTTGGCCTCCTTGTGACATTCTGTGGCACTGGCCCT  
GATGCAGCGTGGCCAGCCCGCTCTCCTCTACCTGGTGCCCTGCACGCTGGTGACGAGCTGCGCTGTGGCGCTCTG  
GCGCCGGGAGCTGGGCGTGTCTGACGGGCAGCGGCTTTGCGAAAGTCTACCTCCATCTCCGTGGGCCCCAGC  
ACCAGCCGACGGCCCGCAGCCTCCCCAAAGACTCTGCCACGCCACTCTCCCCGAGCCGCCAGCGAAGAACCAGC  
CACATCCCCCTGGCCTGCTGAGCAGTCCCCAAAATCACGCACGTCCGAGGAGATGGGGGCTGGAGCCCCCATGCG  
GGAGCCTGGGAGCCCAGCTGAATCCGAGGGCCGGGACCAGGCCAGCCGTCCCCGGTAACCCAGCCTGGCGCCCTC  
GGCCTAGGGGAGGGGTGAGACGCTCGCTGCCGTGCCCGCCACACCAAGATGTTGGGGCTGCCTGGCGCCCACTGG  
AGACAGACAGACAGACGCCTGTCCCCCGGACCGAGGCCTGTGCCGTCCCCACCCGCCCAACATGGTGCTCATC  
CTTGCCGAGACCCCTGCGGTCTGTGCCCGCGCCAGCCAGCTGCCCGGCTGCACGCCTGCTGCTCCAGCTCG  
CCCGGCTGCCACAAGCTCTCTGCGGGTCCATCCTCCCCACCGGGTCCGTCTCGCAGGCCCTGCCCGCCTCTC  
TGCAGACCTCAAGCGTCGTCTGCATGAGTGAGCAGGCGTGGGTGGACTCTGGCCGCGGCCACACTGGTGCTCA  
CCAGCTGCTTCGGCCTTCAGGTGACCTCCCTCCCCACGGCATCTGCTCTCCGGGTGGAAGAGCAGCTTTCTGTC  
TCCCAGAAGGCATCGCTTTTCCCTCTTGAGCAGATCGGAGCCCTGGGAGGTTTGGAAGCTGCCTCCAAGCCTAG  
GACACGGACAGTGGCCGGGGCGGCCTCTGGCCCTGACGCTGGCTGAGACAGGCCCGTGGGGCGGGGTTTTGGG  
GCGTGAACAAGGCTGGCAGTAAGTGGACAAGCTGCTCCCTGGCTAAGGCCCTGCCCTGCCCTCAGCCAGAGGTG  
CCTGGCCATGCCCTGCACACTCCTCCCCATTTAATAAATGGTCGCAACTTCTAGAAGTCTGCTGGTGCCACCTG  
GTGGGGTGGACGTCTCTCAGACTGCCCTTCTGACAAGCAGGGGTGGGCGCCAGGCAGGCTGGGTGAGGCCCTCAG  
GGGTCCCTGGAGCCCTGGGAGGGAGGGACTGGGTGCTGGGAGGTCTGGTAGCTCCCGGCACCCAACCTCGCTTC  
CCGTGTGGGCCCCGTGTTGCTTTTCTGCTGAGAGGGGCTTGGGCCTCGGTTCTCCCTGTGGCAGCGGCATTGGTG  
CCTGGGTTCTTAACCTCTGGACCCAGCAGCTAGGAGCTTCTGGAACCCACGAGGACATCTGCCACTGGCATGGT  
CTACTCACTGATGGGGTCTCCTGACTCCAGGGCAGAGACGTCCGTGCGGGAAGTACCGAGGCGTGGCCCCAGG  
CCCCGGCATCCTCCCCCTCGCTGCACGTGGTCACTTCCGAAGCAGCGCTCCCTGTGGCCGCAGAGACAGAGCCCGC  
ACCCTGGCTGTCTGTGGTGCTGGGCCCCAGCTCCCGCCCGCCACCCGCCCTGTTGAGTGCGGCCTCCAGACTCG  
AGTCCAGAATCTGTTTCTGTCAAGTCAGTCGTCCCCAGCTGCACACGGGGACTGCTGAGCGCTGCGCTCTCACGG  
GTCTGTTCCGGACAGAGGGTGGCAGGGGTGAGCCCTGATCCCTTACAAAAAATACCAGCTTCCAGGGAGTAATG  
GCGCCTTCACTGAAGCCATTTTGTACATGGGACGGGTGGGGACGTCTCTTTTTTGGTGTTGGACGTTTGACCA  
GTGGGGAGGGGTTAGAGGCGGCGGTCTGTCTTGGCTCCGTCTGTCCGTGTGGCCTTGCTGCCATTCCGTCTG  
ATCATTAACACAGCTTTTGATAC

326/5332  
**FIGURE 290**

ACCCCCAAGGAAAAAGGTCAGTGGCTAGTGTAGCTAGTGTAAACAGGACCCAGGCGATGCATGGGACCCCTGCCCT  
TTTTTTTCTAGTGAGCCTCCGACGCTGTTGCACAAGCTGACTCTTCGTACAGTGATGCGACCGGGCTCCGCCCCG  
GCGGCAACACGCTGTATAGACGCGCGGGTGCCTCGTGCAGTGCAGCGGAGGCCCTTCGGGACGAGCTGGAGGC  
AGAGCGTGAGTACAAAGTGATCGGCCTCGGCCGCACGTAGTAGCCCCCTACTCCCCGGCCAAGTCAGGGCCTCC  
CTCTTCCCGCGGAGTCGCAACCACGGGTAGCTCGTGTAGGTAACGGCAGGTCCAGGCCTCCGCATGAGCGGAGGG  
CCCCCGCGCGACCTTGAATGGCCCGGGCGCGCGGTCTGTGGGAGTTGTAGTCCTCCGTCCCGTCCGCGCG  
GACTCCGTTTCCCGTGGTGCCCCGGGCGGCCCGCTTCCGGCGCAGTTAGTTACGAGTCGGCGCACGCGGCCTCGG  
TCCGGTTGACTTTGCGGAGCCATGGAGGGCGGCTTCGGCTCCGATTTCGGGGGCTCCGGCAGCGGGAAGCTGGAC  
CCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGCGCAGGAGCTGCTGCAGAGGATGACG  
GACAAGTGTTTTCCGGAAGTGATAGGGAAACCTGGGGGCTCCCTGGACAACCTCCGAGCAGAAGTGCATCGCCATG  
TGCATGGACCGCTACATGGACGCCTGGAACACCGTGTCTCGCGCCTACAACCTCGCGGCTGCAGCGGGAACGAGCC  
AACATGTCACCGGCGAGCGCGGGCCACCCACCCCTGTTTCAATTTCCATAAACGTGCTTTGAGAGGCGGGGTCCGCA  
TGTAAGTACTGCCTGCCCCGGGCTTAGGAGGGTGGCACCAGGTGCTGGGACACACGGGACTGTGTCTCGCCACCC  
CCCGCCCTGCCCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGTGTGGGGCCCTGTGCCTTCCTGAAGTGCTGG  
CAGCCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCCCAAGTCAGCCTCATATTCTGGGCGG  
ACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCTGTCACCTCCTGCGGATGGGCAAATA  
AATTGGTGGAGGACGGAGAGAAACCTCTTTATTTCCCTCCTGAGGGGTCTCTGGGAAGAGGTGACGCGTGTCCCT  
GGAACCCAGCTCGGAGGGTCTCAGCCTCCCCTGGGTTGGGAGAAGTCCATCTTTCCCCTTAGTGCCACCGGGCT  
GCTGAGTCACGAGGAATGTGTTGCTGCTGCCACCCCTGCCCAAAGGCTAAGGGGGACAGCCTTCCCCTTGTCAG  
GGCTTGCTTTGACCCTGCTTTCGTTCCACCCCGGTCTGTTGGAGCACCAGGCAGGTGGTCTCGCTGTGACACT  
GAGGTGCTGAGCCAGTGAGCTAGGGTGGAGGGGCTGTGTTTATTGGAACAAAGGTGGTACCAAAATGCATCCCC  
ATGACCCACAGCCCCCCCCACACCCGTCTTGGGTAGGGTACGGTGGGGTGGGGTGTGGGTGGCCTGCTGCTCCT  
GTTGCTTTCACGTAGAGTCTCGGCCTGGGCAGTCACGTGGTGGTCACTCCTGGATGTGCTGTCTATCCAGCCTC  
TCACAGCTGCCACCCGGGTATAGACACCTGGGAAGTGGGGCCGGCCACAGCCATAGCCCCAGCTAGTGACCCAG  
TTAGCACCCACCGTCCAGAGGGCTCCCTGCAGGCCAGGGGTCCCCAGCGTCACCCTGTTGGGGAGAGAAGAAAG  
GGGGTTGAGAGGCCGGTACCTCCCCCTACAGCAGCCCTTGGGTCAATTGGCCCCCTTAGGAGTGACCCTAGTGACTT  
CCCCTGGGAGCCGCAATTTTCACTATCTGGAAAATGGGCTCAATGCAAAGGTGGCAGACATTTATGGACACCCGCC  
ACGTGGTCCCGAGTGGAACGGTGCCTCCCACTGCAGCCTCTGCCTGCTCTGCCCGGAGGCCCGGGATGGGAT  
GCGGTGGGTTGCCCAATAAACGGCTGTGGAGTGGAATTCCTCCAGAGCCAAAAAGGC

327/5332  
**FIGURE 291**

TTTTAATGGATATTTATTTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGCCAGGGCCTTGAGGACAGGC  
TGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCTCCGACGGCAGAGCCTCCTTCAGAAAGTGCAGCTCA  
AGTCTTAAAGACACCAAAACTGAGCCATGGGCACGCGCGTCTCCGGGCCATGGCGTTCACTGCAGGGCGGGGGC  
GGCACCGCTCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGAAGGAATGGGGGGCCCCAGC  
CCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACCCGCTGCTCCACGTAGCCCCCTGCTCGCTGTCCT  
TGCTCTCAGAAGTCCCGGTCCCATGTAGATAGAGGGGGGCGCATCTTACCAAAGCATTTCCTCCTGGAGGCTACG  
CCGCTGTGCTCCCACTCAGGCGGCTGGTAGGGAGCTTTGCCTGCCCCGGGGATACCCTCTGCCAGCCGCTGGAAG  
TGGGAATGCTGGCGACAGACTGTGTCCTCTTTCCACCTTCATAGCAGGAATCACCCGGACCCGACTGGCTGGGC  
TTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCTATGGGGAGTCTGCAGTGGTCTCAGCCAC  
ATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGATTGCCGACAGCCTTGACG  
GCTGGGCTCAGGGACAAAGTCCCCCCCCAAAACCCGAGGTCTCATGTCCAGACGCTGCCAGTCTGTCTGAA  
AACAGCACGCCCCAGGCCACAGAACCCCCACCCTACATTTGCCTTGGGTGGAGCTGGGGGTGGTCTTAGGACT  
GCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGGTAATTGGAGGTTTATTGAG  
AATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTTAAAGTTATTTATGGCCTGGGAAACAATTTGCATTTG  
TCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGTGTAAGCCCGTGCCGTGTGA  
CTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGAGGCCACGCCTGCTGGACC  
AACGCGGGTTCTGGGGTGCACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAGCCCAGGAGCCGGGAGGCCT  
GCGGGCTGACCCAGAATCCGATCATGCACCTGTCTCATGCCAGCGGCTTTGGCTGGGGTTGGTCTGAAGCCTGC  
ACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCCTCAGTCCTGGGGCGTCGCCGCCTGCAGCCTCTTCCAAGC  
CCTGCGTCCAGCGAGCGTCACAGCACAACTGCAAAAACGGAGCTGGGCTGCAGCTGGGGCTGGCATGGACTTTC  
ATTTAGAGATTTCGGTTTTTTAAGAAGATGCATGCCTAATGTGTTCTTTTTTTTTTCCAATGATTGTAAATATACA  
TTTTATGACTGGAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTT

328/5332  
**FIGURE 292**

AGCTCTGACCAGAACGACAAGGCGGCCAGTGCGGCTCGCGAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCC  
CTCAGCTACCAGCTCTCCGCCTCACTTCGCTGCCACTTCGCCGCTGCCCCGGAGACTTTTCAATCCCACCCCACT  
CCTCATCTCACCATTTGGTCAAATTGGAAGCCCAGGGCCAGGACCCGGAGGTTTAGAAGATGCTTGGGCTTGGAG  
GGAGGAGGGCCGGCGAGGCTAGCGAGGGGACAGGAGACGGCCCTGCTGCGGACGGAGCGCGAACTGCGTAGGA  
ATTCAGTG GTGGTGGGTTTTTTTAAGGCTTTCTACAAAACCAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCC  
CGGGGCAAGCCTGCATTCTGGCTGCCAGCTTCGGACAGCGGGAACTCCTCAGGCAGCCACGCAGCGGGTGTGG  
GCCAGCATGGGGATGGCGTGGCCCCCAGGGCGGGTTTTCACTCCGCTGCCTGGGCTTCCAGATTCCCGTTCTGGC  
AGCGCACCGGCCGGGTTTTCTCGGACCGTTGACTTTATTTGGGGGAGTTTTCCCGCAGTTCAGTTCCTGACTGTGC  
AAGGCCAACAGGGCAGGGGAGGGGAAGACCTGGGGAAGGAAGAATGAGGACAGTCCCGTCGTAAGACCTGTCACA  
ACAATA

329/5332  
**FIGURE 293**

CGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT  
TTCTGGAAGGATTTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT  
GGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC  
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT  
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA  
CAGCGTGGTCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT  
CATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTGCGGCATGCAGCGCCTGGCGCAGCTCCT  
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTCACGAACCTCACAC  
GGAAGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAAGTGGGT  
CCCCTACATCTCTCTTCAGGAACGCTTGAGGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA  
AATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAACCCCCCAACCAACCCACGAGGACCATCGG  
GGGAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCAGGGCGGAGAT  
CCAGGAGCTGGCGGCCCGCGATCCGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCGAAGCTGA  
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC  
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA  
CTTGGTTGAACCTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA  
GTTGCTCTGTACCCATGAACTCCCAGTTTGCGAATTATAGAGACAATCTATTTTGTACTTGCATTGTTATTTCG  
AACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTATTCTACTATGAGGGCCTTGTAATAAATTTT  
TAAAGCCTC

330/5332  
**FIGURE 294**

CATGTTTTTGGATTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTGAGATGGAGTTTCATTCTTGTTACCCAGGCTGGAGTGCAGC  
TGCATGATTTTCAGCTCACCGCAACCTCTGCCTCCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCT  
GAGACTACAGGCGTGTGCCACTACGCCCGGCTAATTGTTGTATTTTTTAGTAGAGACGGGGTTTACCCTATTGGC  
CAGGCCGCTCTCAAACTCCTGACCTCGGGATCCGCCCACCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCATGAG  
CCACCGCGCCCAAGTGTGTTTTAAGCATGAGGCATCCGCGTGGCTGGGAGAGGCTTTGACCATCCTTGGCTCTTCC  
AGGTTGTCTACCTCTGGCATCCACCATAGACGTTTTTCAAACAGAAAATGCAGGCTGGGGAGCCGCGGCAGGG  
CGGGTGGGGCTACCTGTGCTGTGTGTGTACAAAATTGTTCCATGATCTTGGAGTGAATCTGAAGGACTCTGGG  
AGGTGAGACGTTGTCCCGGAGATCAAAACGTCCGCTCAAAACGTTACCCTGTGCTCGAACCCTGATCTTTTTGCT  
TTTCCACCCCCGTGCAACCCAGGACGGCTGTCTGAGGCCGGGAGATGCCTTAGACGCAGGATGGGCCACTCCTCC  
CAGCGCAAGTGGAAATCGAAGATGTATGGGGTCCGGGGGAGGCTTCTGAAAGATGACTGCGTCTCTCTGCG  
GCACGGACGGGAGCAGGTGCAGCCACATCTTCCAGGGCTGCCGGCATCACCTGCGGCCACACCTGAGATGGACC  
CCACGCAGCCCTGATCGCAGGAGGCTGGCCGCCCCGACCCCTCCACGGGGCTGGCCTAGAAGCAAGTAGTAGA  
ATAAACTAGCCTAGTCTGTCCCTCCGGCCCCAGTGGAGACAGGCGTCTAAGAACCCGTGCCGAGAGGGTTCTT  
GGACGGCCGCCCAGGTCTCCGTGCAGGCCCGTGGGGGGGATCCCTGCTTGGCTCACTTCTGAGCTGGTGAC  
TGCCAGGGTTCCACCTCGCCAAGGCTAGAGGGCTCCGGGTGTGTGTGCAGGTGTCGGGGGAGTGACCTCCACTC  
CTCAACCTCGGGCAGCTCCACAGGCCACAGCCGGGCTCCCCACCCCGGCACCCAGCTCTCTACGGCAGGTCCG  
GGAGGGCTGGGGCTTCGGGGAGCCCTACCCGCCAAACCTGCTGTGGGGCGGGAGAGCCCCAGAGGCTCCCGGAG  
ACTGCAGCCTCCTGTGGTTGGGCTGGGAGCCGGCAGGGTTTGGGGTGTGGGCGTCCCCACCACGCATAGCAGGAA  
TGGCAGGAAGGGACAAAAGCCTGTTCCAGAGACCCTGGGAGGACCCAGGCAGGGAGAGCCCGCTGCCTCCACC  
CTTTCCAACAAGCCATCTTGGTAACGGGAACAAACACACCCACCCCGTTTTTCTTAAAGAGGCCTTAATCC  
CCGAGCCCCCGCTGCCAGGGCAGAGGGAGGAGGGGGCACAGCTGTGCCAAGCCCGGCCCACTGGTGTGTCTCA  
CAATGTGACCCAGAAATGCCAGCAGGGAACGGAGGCTGCTGCAGAGACGCAGCCCCAGGCAGCCGGGGCTCCTA  
GGCTGGTGCAGATGGTGGGGTTAAACGGGCTGAGCGTTCCAGGTAAACTGAGGCTCGGGGAGGGGAAGGACAGGC  
TGGCCTCTCCTTCACTGTCCACAGGCGCTTGGGTTCCCTGAGCTGTCCAGACCCACCATCTCCCGACCCAGG  
GAGGTGGCCATTGCCAGAAGCCTGTGGGTTTCTTTCTAGCTTGGGGGATTAATAAAAAAAAAATTCTCCACTTTTTTT  
TTTCTTGAGTAGACTTCAGTGACCACACTGTGGAAAATACCTTTGCAGACGTGGCACCCGAGTGCACACACCGAC  
CGCCACATGTGCTTTTCTGCCGGGAATCCCTGGGGTGAACGCATGTTTTATGGGCGTTTCCAGGAGCGCGCGTGC  
ACCTCCAGACGGGGAGCTGGCGGGCGGGGGTGGCAGCAGCAGCTCTAGCCTTGGGGGGACAAGCCTCTCTCAGCT  
ACGCCAGGGGAAAAGAGAGTTAAGGACACTACCCCCACCCACGCACACACACAAGGCAGCGTCGGGTGGGAGAG  
AGAAGGCCGTTTCTCCTTCTGTAGCCTGGGTCTCCACGGGCCTTCCCGCTGCTGAGCGAGACACCAGTAGCCA  
GGTGAAGGGCCACAGCGGGCCAGGCCCCGACCTGTTGTGACCCACCTGGGCACCTTCCCGGACCAGCTCCGCCT  
CCCCTGCCCTCCTCTCTCCAGGAAGGAGCCAGAACCCTACCCCTCTCCACCCTCCCCAGGGGTAACCCAGGC  
CAAGCACAGATAGCTCAGCTGCGACCTCTGGCCTCTGGGGACATAAACGGGGCGGCTGGGCCAGGGCGGAAGGTG  
CTCCTGTTTCCCTCCTTCTGCGTGGTCCCTTTGACGGGGCGGCCACCGTGTCCGAGGCGCAACGCTAGGCCTCCA  
GGCCACGCATCCATCTCCAAGTTAACAGCCCGTCTGCCAAGTTCTGGGGCAGGTAGGAGAGGGCCGTCACACA  
CCTGTCCGCCCCGTGAGTGACCCGGGGGGGCTTCCGGGTGGAGGTGGAGCCACCACGCCCTTCTCAAGGGGTAC  
TTATTAAAAAGTCCACGGCCTGAGGCCAGGCCCTCTGCACAGAAGCCATATGCC



331/5332  
**FIGURE 295**

GGGCAGGGGCGTGGGCGGGGCGTGACCAGCCGCGCCGAGCGGGGCTCTCCGGGCCGCGTCTGTGGGGTCGAGA  
CTGCGCGGGCGTTGGGCGTGACGCGGCCAGTCGGCGGACGAGGGGCCCCGGGAGTTGCTGGACTGAGACATG  
AGCCTCCAACCTGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCACAGATGGTTTGGCCCTG  
CAGTGACCAGAGCAGCCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT  
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA  
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCG  
CTGTGAGGGAAAAGCTCCAGAAGGTCCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC  
TCCTGCTGGGCTTCTTCATGACCGTCTTCTGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCTTCA  
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCTTCATGGGGGGCG  
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA  
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTGCGGCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC  
AGGAGGAGGGGGAGAAAGTGGTGAGCCTGTTTCGTGGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG  
GCATCAGCATGGCCCGGAGTGCCATGCCCCTGCGGGACGCGGCCAAGCTGGCGGTACCGTAAGCGCCATGATCC  
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC  
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG  
ACCGTCTGCTCAAGGTCCTCTTCCTGGTGCTGGGCTACACCGTCCTGGCCGGGATGGTCTTCTCAAGTGGTGAG  
CGGCCTCGCCATTGTCCCTGCCGCCGGAGCCCGCCGGGAGCCCCGGGCCGGACACAGGCCGCGTCCCCGGCCGC  
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCCTCCCGGGACCAGGCTGTGC  
CCCCGATCCTACACCTGAGCCTCAGAGCACTGCTACTTTTTAAATACTTCTTCTCTTAAAAGTCTTTACC

332/5332  
FIGURE 296

GGCGTCGCGCCCTGGGGCCGGGGCCGGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTGCGGGATCGGT  
CGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGACACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTTC  
CTGCATGACCAGCTCCGGCACGGGGCCCTCTCGTCCGATGCTCAGGAGAGCTTGAAGTCGCCATCCAGTGCCTG  
GAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGCG  
GCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCGAACCCCGCCTTCCGAGGAGGACTCAGCA  
GAGGCAGAGCGCCTCAAACCGAAGGAAACGAGCAGATGAAAGTGGAACCTTTGAAGCTGCCGTGCATTTCTAC  
GGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGAGCCTACAGCAAACTCGGC  
AACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAGG  
ATGGGCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGAC  
CCCCACAACGAGACATAACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGGA  
GGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCTGGCTTCATGAGCATGGCTTCGAACCTAATGAAC  
AATCCCGCAGATTCAGCAGCTCATGTCCGGCATGATTTCCGGTGGCAACAACCCCTTGGGAACCTCCCGGCACCAGC  
CCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCAGCAGATGCAGCAGCAGAACCCA  
GAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCCAGCGCCAGCAACGACGACCAGCAGGAGTGA

CGCTGCCTGCTCCCGGTGTGACCGCTCCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTCC  
TCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCTTTTAT  
CTCTGCCCTCCTCCACTCCCTTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAGC  
TGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTCTTAGAATCCTGG  
GGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTACGTTTACGCCGTGTGGCGGATCGTGTGGCTTCCAAAG  
CCTTTTACAGCCCCCGCCCCCATCCCGTGGTCTGTCTGCAGGAACCTCTCCCGTCTGTGAGAAGCCTCTTTCCGA  
GTGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGGG  
CCATGTGTGTTTGCATGAGGAACCTTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTACCCACGCCTCCGCG  
GCTCAGGAGCCGTCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGTT  
TCCCTCCTCCACCCCTCATTTTCTGGTCTCGCGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGGC  
CGCCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCTTCTGTCTCTG  
GATGTTTTCATGGGCCCCGGGCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCAG  
GTGCCACCCACCTTGGCCCTAAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGGG  
TTCCTGAGGCCTGGGGGTGGCAGACGAGCCACGGCGCCGTGGTCCAGCAGCAGGGTTGTGAGTCGGAGCATCC  
TGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGGGG  
CCGCCGCGGCCCTGCAGCCGTCTATGGCGGTGAGGTGTGTGCCAAGCCACCCGGGGTGCAGGGCGTGACGTGTG  
GGGAATAAATAGGCGTTGTGACCTCT

333/5332  
**FIGURE 297**

GTGGCGGCGGTTGGGCGGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG  
GGAGCCGCAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT  
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCCGAGCAGATAGAGGAGCGCACCAGGGAGCTCATC  
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCCAGGAGTTGAGGACGTGTCCTACGAGAGCACGCTCAAG  
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTTACAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC  
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTGACGTGGAGATGAGCATGAGGGAG  
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTTCAAGGACTCACTGAGGCCCGAGGCTGCGCGGTAC  
CTGGAGCGGCTAATCAAGCTGGGCGGAGAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC  
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCTGCCCTTC  
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG  
GTCACCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTTGGAG  
GAGGCCTTCAACTGCCGGTGCAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCAGAAG  
TCCCGCCTGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG  
GCCACCTTCTAGATGAGCTGGCGCAGAAGCTGAAGCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG  
AAGCGTGCGGAGTGCGAGCGCGGGGCTGCCCTTGCACGGCCGCATCCGTGCCTGGGACATGCGCTACTACATG  
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG  
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT  
GAGGACGTGCGGCTCTACACCGCGAGGGACGCGGCCTCGGGGAGGTGGTTCGCAAGTTCTACCTGGACCTGTAC  
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC  
CAGATCGCCATCGCGGCCATGGTGGCCAACCTTACCAAGCCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC  
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTCCGCATGTTT  
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCGCTCGCAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG  
CCGCTGCTGCGGATGTGCGGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG  
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACACG  
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA  
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCAGTACTACGGGTACCTGTGGAGCGAG  
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCTGAACAGCAAGGTTGGCATGGATTAC  
AGAAGCTGCATCCTGAGACCCGGCGGTTCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCCGTGACCCC  
AAGCAGGACGCCTTCTCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCGAGCCGCAGGTCTGCTGAGGC  
CTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCGGCCCTGGTGCCTTAGCCCCGGCACAGGATGGGGCA  
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCTCTTGTCAATTGTCTGTCCCCACC  
CGGTCGTGGCCACCCGGCTAGAGACGGCGTCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC  
TTTGTGCACTAACACGTCTCCTCTCTGGGAAACGTCCCTTGTGAGGAGACGGCTCTTCTTGAATGAGGTCAT  
TAAAAGGAAAC

334/5332  
FIGURE 298A

AGAATTTAGCTTTTTTCAGGAAGTGCCTACTGGCTTTTTCTTTTGTTTTTTTGTTTTGAGACAGAGTCTCACTTTG  
TTGCCCAGGCTGGAGTGCAGTGGCACTCTCTCAGGTCACTGCAACCTCTGCCTCCGCAGTTCAAGTGATTCTCAT  
GCCTCAGCTCCCAAGTAGCTGGAATTACAAGTGTGCACCACCACACCTGTTTTTGTATTTTTTTTTTTTTATGA  
GACGGAGTTTCGCTCTCGTTGCCAGGCTGAAGTGCAGTGGTACAATCTAGGCTCACCACAACCTCCACCTCCCA  
GGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTACTG  
TTTTTGTATTTTAAATAGAGATGGATTTTGGCATGTTGGCCAGGGTGGTGTGAACCTCATGACCTCTAGTGATC  
CACCTACTTCCGCTTCCCAAAGTGTCTGGGATTACAGACGTGAGCCACTGTGCCAGCCCCATACTGGGTTTTGTA  
TCAGCATGTATATTTCCATTCCCACCAGCAGTGCAGACTGTTGCAATTTCTCCACATCCTTGGCAACACTTACT  
ATTTTTTATTATGGCCTTTCTAATATGTGTGAAGTGGTATCTCATTGCGGTTTTGATATGCATTCCCCTAATGAC  
CAATGACATCGAGCATCCATTCTGTGTTTATTGACCATTTGTGTATCGATTTTTGGGGGAAATGTAAGATCTGT  
AATTTTTTTTTTTTTTTTACTCTGTGCGCCATGCTGGAATGCAGTGTGCAATCTCGGCTCACTGCAAGCCCTGC  
CTCCCGAGTTCATGTCAATCTCCCGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCTGCCACCACACCCGG  
CTAATTTTTTGTATTTTGTAGTAGAGACGGGGTTTACCCTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCATG  
ATCCACCCGCCCTGCCCTCCCAAAGTGATGGGATTACAGGTGTGAGCCACTGCACCCGCCCTTTTTTTTTTTTTT  
TTTTTTTGAGACAGAGTCTCACTCTCATTGCCAGCCTGGGGTGCAGTGGTGTGATCACAGCTCACTGCAGCCTT  
GACCTCCCCAGGGCTCAAGTGATCTTCCACCTCAATCTCCCAGGTAGCTGGGACTATAGGCTTAGACCACCACA  
CCTGGCTAGTTTTTTTGTGTTGTTGTTTTTGGTTTTTTTTTGGTAGGTCCGGGGTCTTGTCATGTTGCTCAGGCT  
GGTCTCAAACCTCTGTGTTCCAGTGATCACCTGCCTCTGGGCCTCCCAAAGTGTGGGATTACAGGTGTGAGCCA  
CCACGCCCAACCAGATCTGTAATTTTTTTTTTCTTTGAGACTGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAA  
TGCCACGACCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCACCTCAGCCTCCTGAGTAAC  
TGGGGTTACAGGCATGCACCACCACGCCAGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTTACCATGTTGG  
CCAGGCTGGTCTCAAACCTCTGACCTCAGGTGATCCGCCTGCCTCGGCCTCCCAAATTGCTGGGATTACAGGAGT  
GAGCCACCATGCCTGGCAGATCTGTAATTTTTTAACTAGAAAATAAAATCATTATCTTGCTGCTACCTCTCAAG  
TATACTCTTGCTTTTTTCAGAAGCCTTGAAGAACCAATGTACTGATGTGGGGATTAAAGAGGGTCCACTTTCCCC  
AGCACAAACCTCACAAGTCACTAGTCTTTCCTCATGGACGGGGTATTTACTTTTTTCAACCAGTGGCTTCTTCCCA  
CTTGGAGCAAAGAGAAGCCCTGTGGATAGAGGAAAAAGGAACCTCAAGCCTCCTGTTTCAGATTGGATGACTGT  
ACTAAGAAACCAAGACTCAACTTACAAGAAGGTGGCTTTGCAGGAGGAACCAGCCAGTGGTATAAATATGATAAA  
GCTTATCAGAGAAGATGGGGGATGGAAGCAGTTAGAGGACAGCCATGAAGACCCCCAGGGGCTTTGAGCCAAA  
GGCATCCCTTACGTAGTGGCCGTTCTCAGGAGAAGGCTACTGCATGGCATGGATTTGGGGAAAAATGGTAATCT  
GAGCCAGCCCTTGTTTTATCACAGGGAAGCTCTAAAGGGAACCACTTGTGTGGCAGCGAGTTAGATATTACAAG  
CTTGGCATCCGATTAGTCTTAAACCACCATCAGCTGGGATATGCAGATCGGAGACCTTGTAAGTAATGAATG  
TGGAATGCCATCCGCCAGAACAGTCACTTTATTCAACACGGGGGGAAGATGTTTGTGATTTGGAAAAATGGGCA  
GTCATTGAACCACGGTATGGCCCTGACTATCCACAACAAAATCAACACGGCAGAGAAAACCCCTTGAGTGCCACCA  
GTGTGGGAAGGTGTTCAACCGGAGGCATTCTTTGAGCGAACATCAAAGAATTCACACGGGGGAGAAACCTACGA  
GTGTCAGGAGTGTGGGCGAGCCTTTACGCACAGCTCCACCCTCAGCGCCATCTGAGAACTCATACTGGAGAGAA  
GCCCTACGGGTGCGGTGAGTGCAGGAAAGCCTTCAACAGGATCTCATCGCTGACTCAGCATCAGAGGATTCACAC  
CGGGGAAAAGCCCTATAAATGTGAAGACTGTGGGAAATCCTTCTGCCAGAGCTCTTACCTGATCTTGACAAGAG  
GACACACACCGGAGAGAAGCCCTACGAATGCAGTGAATGTGGAAAGGCCTTCACTGACCGTTCTCTCTCAACCA  
GCACGAGCGAACTCACACGGGCGAGAACCCTATGAATGTAAGCAGTGTGGGAGAGCCTTCAGCCAGAGGTCTTC  
CCTTGTGAGGCACGAGAGAAGTCACTGAGAGAAAACCTACAGGTGTGAGGAATGTGGGAAAGCCTTCAGCCA  
GAGCTCATCCCTTGTCACACATCAGAAAATCAGAGCAGCCAGAAAACCTATAAAATCATTGACTGTGGGAAAGC  
GTTCTACCAGAACAGACATCTTATTGGATATTAGCAATTGCACGCTGCTTTGTAAGCCACTTTTTAGTACTCTGA  
CACATACATGTGTTATCTTTTGGCCTGTTGTGATGGATAATTTGAAAAGAAGTGGGTTTTATGTCACCTTCTCAC  
CTTCTTATAAGAAAGCTCTGAGAATGGGCATTTTTGTATTTTGTGTTGTTGTTGAGATGGAGTCTGCCACCCAG  
GCTGGAGTCCAGTGGCGTGATCATACCTCACTGCAGCTTCAACTTCTGGGCTCAAGTAATCCTCCACCCACAGC  
CTCCAGGTAGCTAGTACTATAGGTGTGCACCACCACGCCAGCAAATTTTAAATTTATTATAGAGTGGGAGGC  
AGGGTGGGTGGCTCATGCCTATAATCCTAACACTTTAGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATC  
GAGACCATCCTGGCTAACACAGTGAAACCTGTCTCTACTAAAAATACAAAAAAGTAGCCGGGCGTGGTGGTGGG

335/5332  
**FIGURE 298B**

CGCCTGTAGTCCCAACTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAGGTGGAGCTTGCAGTGAG  
CCGAGATCGCACCCTGCACTCCAGCCTGGGAGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAATTATAG  
AGTTGGGGTCTTGCTACATTGCCAAGACTGGTCTTGAACCTCCTGGGGTCAAGCATCCTCCTGTCTTGGCCTCCCA  
AAGTGTGGGATTAGAAGCATGAGCCGCTGTGCCCAGCCTGACGGGGCCTTTTAGTGGGAGGAGTTGCCATTACA  
CTACGTCCAGTAAGCTCCAGACTTTCGGAAAAGATTGGTGGACGGGAATGCTGTCATGGATGGGATCTTGCCAAG  
AACCATCACGTGTTAATTTAGTTGCTTAAACAAAAGGTGTTCTGTTTCTTAACT

336/5332  
FIGURE 299A

TCTAATCAGGCCCCCTGGGACGGGACGCCTCTGTCTAGCCGTGAGTGCCCCGCCTGCCCCTAGCGGTCCCTGGCG  
TCCCGGTTCCCTGTGCGCTCACCTGCGCCGGTAGCGAAGAAATCGCCCCGGGACATGGACTCAGTGGTCTTTGAG  
GATGTGGCTGTGGACTTCACCCTGGAGGAGTGGGCTTTGCTGGATTCTGCTCAGAGGGACCTCTACAGAGATGTG  
ATGCTGGAGACCTTTTCAAGACCTGGCCTCAGTAGATGATGAACTCAATTTAAGGCCAGTGGGTCACTTTCTCAG  
CAGGATATTTATGGAGAGAAAATACCCAAGGAATCTAAAATAGCCACGTTTACCAGAAATGTTTCCTGGGCCTCT  
GTTTTAGGAAAAATTTGGGACAGTCTTAGCATCGAAGATCAAACCACAAACCAGGGGAGAAATCTCAGTAGAAAT  
CATGGGTTGGAGAGACTCTGTGAAAGTAATGATCAATGTGGAGAAGCCCTCAGCCAGATTCCACATCTTAATCTG  
TACAAGAAAATTCACCTGGAGTAAACAGTATGAATACAACACGTACGGAAAAGTCTTCATGCATCGCCGCACA  
TCCCTCAAGAGTCCCATCACAGTTCACACTGGACACAAACCATATCAGTGCCAGGAATGTGGGCAGGCCTACAGT  
TGTCGTTTACACCTAAGATGATGTGAGAACCACAAATGGAGAGAGACCCTATGTGTGTAAATTATGTGGGAAA  
ACCTTTTCCCTCGTACTTCCCTCAATCGGCATGTAAGGATTCACACTGCTGAGAAAACCTACGAATGTAAGCAA  
TGTTGGGAAAGCCTTTATTGACTTCTCAAGTCTTACTAGTCATCTCAGAAATCACACCGGAGAGAAGCCATATAAG  
TGTAAGGAATGTGGGAAAGCTTTTCAAGTATTCTCAACGTTTCGAAGACACACAATAACACACACTGGCGAGAAG  
CCATATAAATGTAAGGAATGTGCGGAAGCCTTTAGTTATTCTCAACTTTTCGAAGACATATGATTTACACACT  
GGAGAGAAGCCACATAAATGTAAAGAATGTGGGGAGGCCTTCAGTTATTCTTCGGCTTTTCGAAGACACATGATA  
ACACACACTGGAGAGAAAACCTACGAATGCAAACAATGTGGGAAAACCTTCATTTATCTCCAGTCCTTTTGAAGA  
CATGAAAGGATTCACACTGGAGAGAAAACCTACGAATGCAAACAGTGTGGGAAGACCTTCATTTATCCCCAGTCC  
TTTTCGAAGACATGAAAGGACTCATGGTGGAGAGAAAACCTATGAATGCAACCAGTGCGGGAAAGCATTCACTCAC  
CCCTCCTCCTTTTCGAGGACACATGAGGGTGCACACTGGAGAGAAAACCTATGAGTGCAAGCAATGTGGGAAAACCT  
TTCAATTGGCCCATATCTTTACGAAAACATATGAGAACACATACTAGAGAGAAAACCTATGAATGTAAGCAGTGT  
GGGAAAGCCTTCAGCTTGTCTGCTTGTCTTCGAGAACATGTGAGAATGCACCCTGAAGACAAATCCTATGAATGC  
AAGCTATGTGGGAAAGCTTTCTATTGCCACATATCCTTACAAAAACATATGAGAAGACATACCGCAGAGAACTC  
TATAAATGCAAGCAGTGTGGGAAAGCTTTTCAAGTGGCCTGAACCTTTTGCAACAACATGTGAGAACGCACACTGTA  
GAGAAGCCCTATGAATGTAAGGAATGTGGGAAGGTCTTCAATGGCCATCATCTTTACCAATACATATGAGACTG  
CACACTGGAGAGAAAACCTTATCAATGTAAGCATTGTGGGAAGCATTCAATTGTTTCTCATCCTTAAGGCGACAT  
GTGAGAATACACACTACAGAAAACAGTATAAGTGTAAATGTAGGACATCCTCCTGCAAATGAATTCATGTGCAGT  
GCTTCAGAAAAGTCACACCAGGAGAGAGATCTGATCAAAGTTGTAAATATGGTGTTCCTTTATGAGTTCCTTAT  
CCTGAAAGTGGACACTCAAGGAGTGTGTCTGTAGTTCATTTGCAAATAAACATTTAGTTGAAAAATAATTCTCCA  
AATACTCTCAGCTATCCTACATGAATTTGAACAGGTAGTTTCTTACGATTCAGTAAATAAACTTTTCTCTTGA  
GTGTTTTGGACTCATGGATGATTTGAAGTGTATTTTTAATATGCAAGTAGGTTCAAGTTTTATTTAATTTCTTAA  
ATTGTAAGTGAATTAAGTGTGACAGGTATTGGATATTACGTATCTATTATATTTTCCACCTTTTTTACTGGGAGTA  
TTTTTATTGTTTGGCCAGAGGAGCCTTATCCATTTTTTAAGAAGTAGTTGGCAGAATTTTGTAAATTATGCAAAG  
TTGTTTAAGGAGTATAGCCTCAAATGAATTTGAATTTTTAATGTTTGGCCATTGCTGTTTGTCTTGTGTGAT  
TGTGAATTGGACAGTAGGCTTTGACTTGTGATGTGACGGAGAAATCCAGAGTTGCAGATAGTCTTCTGCATTGT  
TGTCAGTGTGGGTAGTGTAGGAACCTTCATTTGCTGGAATGCATTTCCCTTTATGGTTCCATGTCCAAATTTACCA  
ATAGCAATAACTTGAATGAAATTTAGAATGAAGAAGAAGTAAGTCATCGCTGAGCTTTTGGGGTCACATTAAATG  
GAGATGGACAGATGCATAGGGGCTTTGTGAACATCAACCTTCAGCTTATTTTCCAGATTCTTATTCCTGCCAATC  
AAGAGTACCATCAAAGAAACACTTAAGTGCTTGATTTCAGTGTGTGAGAGGTGTAGTCTTCTCAGACATCTC  
CATTAAGTGAATATTAGGGATATTCTGTGTGGTCACTAGAGTCTGGATTTTTCTCAAACCTTCATGA  
CCTCTTGACCACTGATTCAGACTGTCTTGTGTTGGCAGTCTCTGAGCTTCTGATTCTCCCGTTCTGTAGATCTTAA  
CATATTTGCATGGGGTCTAATTTATATAGTGAACACCTTGTTATCTTAATACTTCCAGTGGCTCTGTGATCCTGA  
TTCCACCACGAAAGCCACAGTGTGAGTCAAAGAAGAAAAACAACACATGGGACTTTGTACCCTATTGCATTTT  
TAAGTGTGCCGAGTCCCTATGTGAGAACAAATACCTTCCCTCATATATTAGATTTAGGGAGATTTCTGTACT  
CAGAACTAAATGCAGTTTCTTGATATAGGTTAAATTATTAGGTTTGATTATGTATCATTAATAATAATGTGGATT  
TTGTTTCAAGGAAAACCTTCTGTAGATATTTCTTAGAAATATCCTGTTTAGCTGGGCACAGTAGCTCATGCCGT  
AATCCCTGCACTTTGGGAGGCTTGAGGTGAGGAGTTTGAGACCAGCCTGGTTAACATGGTGAAACCTGTCTCTA  
CTAAAAACACAAAAATTAGCCAGGCATGGTGGTGTAGTACCTGTAAACCCAGCTACTTGGGAGGCTGAGACAGGAG  
AAGTGCTTGAACCTAGGAGGCGGAGGTTGCAGTGTAGCCAAGATCACACCACTGCCTCCAGCCTGGGAGACGGGG

337/5332  
**FIGURE 299B**

AAAGACTCCATCACACAAGCAAG

338/5332  
**FIGURE 300**

AGGCACTCCTCCTCACTGTCCAGTCACCTGACGTGCTTTTTCTGCGCACTCAGGTCGTGACACCCCAGGAGGTGC  
CTATCGCGCCCCAAGCTCCTCACGTGCCTCCTCCCCACAGTCCAGGACGCGTCTTACTAACGCCTCACCAGAGCG  
CATGCGCCCTCCTCAGGAGCAGCCTCAAAGCGCGCAGCCTCAGCCATTGGCCTGCGGGAAGTGGAGTTCCCGAA  
CAGAAGCCCCCTCAGTCTCCGGAAGCCCCGCGCGCAGACTGTTCCAGGATGCAACACGGGCTCGCGTCTAAAAG  
AGCTGTGCTTTGTTGGGGCTATCTGGGAGTTTCCGCCTTCCATGAAGTGCGCAGGCGCACTTAGGCGAGGCGGGG  
CGACTCTAGGAAGTGGAGACATCAAGAGTGGTACTGGAAGTGGCGGAAGCTCTCCTCTTGCCCTCTTCAGCTTCC  
GGTGTGGTGGGTCCCGGATATCGCGTGGCTGTGGCAGGTAGACAGCCCGTGCTCCAGAGGCCTTCATCTTGTGAT  
GGCAGATGTACTTGAGTAGACACGACAGACGGGGAAGGACCCTGATGGTCCGAGGGACCTTCCACAGCAAGTAGA  
AGGCACTGCTGTGAATATGATGGCGTCAGAGGTGACTGCAAAAAAGGACAGGGCAGCTGGGCGAGGAAGAGATAC  
CAGTGATGTCCTAACTGAGCTCCCTGGGTCTGGTAGTGAGGAGCTCAGTCTTAGAATATGAGCCGTGTCAGGGGC  
TACAGCATCATCACTCTTGTCCTGTGCGCACTCAGGCTCCCTGTTCTCAGGTTCTTATGTAGACAGTGAGGGCT  
CAGGGAGGCTCCCACCACCACCACCAGCACCACCCTCCATCAAAACGGCTGAAGGACCTTCCTTTAGGGTT  
CGGGGGATCTCCTCCTTCCACAAGGGATGGATGTGAAGACAACCTCATTCTTTGATGTTTCTGATGTTTCTG  
CTGATGAGATGTGTGCACACCTTGCCAAATGCATATGTCTGTTGAGCCTGGACATTAAGTATTTCTTGATGTTCT  
TCTGTGTAACAGGTGATGTCCTAGGTGCTGCACTGAACAGAAGAGACAAAATATCCTTGTTCCCTTGAAGCTAAT  
GTCGTAGGGGCCCCAAAACAAAGCAAACAAACAAAAAAGGAATGCAAGTCAAGTACACTTTGTATGGACAGTGG  
TAATTCCTAAGAAGGAAAACAAAGATGGACTTAAGGGGTGCAGAGGGCCTGGACTATGTGTGTCTGTGGGATAGT  
CTGTTACTACCTCTGGGACTCTCATCTCTTGAGTGTGCTTGGGTGTGTCCAACCGTTTTTCTAGTGACAAAGTC  
TGGGTAATTCTGTGGGGACATATATTGGTGTATCTGGGAGGTCCCATGTGTCTCAGTGGTGGTCCCTGTTTTTCTAG  
GAAAGAGTGTCTGTGAATGTCCATGTGTCTCACTGCACAGCTGTGATTTTTCTGTGTCTCTGTGTTTTTCTAGTCT  
TTGTGTGATGAAATATTAAGGCCCTAGCAGGCTCAGAGTTATTAATGAATTGTACTTAAGCGTTGAGAGGCATATA  
TTTATTGCACTATTAAATTCTTCCAAAATATAGTT



339/5332  
**FIGURE 301**

CAGACTGCGAACCTTCTTGTGCACAAGAGTTACCCTACCGAAGCTAAACCCCTCTGAGTGCACCTAAGTGTGGCAAA  
GCCTTCGAGAATCGGCAGAGATCTCACACTGGACAGAGACCGTGTAAGGAATGTGGGCAAGCCTGCAGCTGCCTC  
TCCTGCCAAAGCCCTCCTATGAAAAACGCAGACTGTAGAGAAACCCCTGTAATTGCCAGGACTCAAGGACAGCATCT  
GTGACATACGTGAAAAAGTCTCAGCAGTAAAAAGTCTTATGAATGTCAGAAATGTGGAAAAGCTTTTATTGTCCC  
TCATCTTTTCAGGGGACATGTGAATAGTCATCATGGGCAGAAAACCCATGCATGTAAAGTATGTGGGAAGACCTTT  
ATGTATTACTCCTACCTTACACGGCACGTAAGAACTCACACAGGAGAGAAAACCCCTATGAGTGTAAAGGAGTGTGGG  
AAAGCCTTCAGCTGTCCCTCATACTTTTCGAGAACATGTCAGAACACACACTGGAGAGAAAACCGTATGAATGTAAG  
CATTGTGGAAAATCATTACAGCTGTTACTCCTCCTTTAGAGATCACGTGAGGACGCACACTGGAGAGAAAACCCCTGT  
CAGTGTAACATTGCGGAAAAGCGTTCACCTTGTTACTCGTCTCTTCGAGAACATGGGAGAACGCACAGTGGAGAG  
AAACCCCTATGAATGTAAGGAATGCGGCAAAGCCTTCAGGTACCCCTCCTCTCTGCGAGCACACATGAGAATGCAC  
ACCGGAGAGAAGCCCTATGTGTGCAAGCAGTGTGGGAAGGCCTTCGGATGTCCCACTTACTTTAGAAGACATGTG  
AAAACACACAGCGGGGTGAAGCCCTATCAATGTAAAGAGTGTGGGAAAAGCCTACAGTTTTCTCCTCCTCCCTTCGA  
ATCCACGTGAGGACGCATACTGGAGAGAAGCCCTTTGAGTGTAAGCATTGTGGGAAAAGCCTTCAGCTGTCACTCC  
TCCCTTCGAGAGCATGTGCGAACCACAGCGGAGAGAAAACCGTACGAATGTAATCAATGTGGGAAAAGCCTTCAGC  
CACGCTCAGTACTTTCAAAGCATGTGAGATCACACAGTGGGGTCAAACCCCTACGAATGTACTGAATGTGGGAAA  
GCCTACAGTTGTTTCTCGTCCCTTCGTGTGCACGTGAGAACGCACACTGGAGAGAGACCGTATGAATGCAAGCAG  
TGTGGGAAAACCTTCAGGTATCTCGCATCGCTTCAAGCACATGTGAGAACACATGCTGGAGCGTGAATCTACGAA  
TACAGTGGACCTGGGAGAGTGTTC AACCGTAAAACCTTGTTGTAAATGTGAGAAAACGTTATTTATGTAGAGCATG  
TAGGAAAACCTGGTATAGCACTTATTTTGTACCTAAAAATTTCAGAGTAGGAGAGAAAATCTCTTAATTATGATTAA  
TATGGTATTGCCTTTACATGCCTCAGCCTTAATAGTGATTCTTTTGTATTAAATTTCTAGTGTATGTTTGTGATA  
TAAACATTTAATAAATATCCTGTTTTGTACGCTTTC

340/5332  
**FIGURE 302**

AGTTTCCTCTTGGCCTGAACTTGGCTGACCTCCGCAGCTTCCGCCCCGACTCTGGCTAAAGTCTTGGAGGCTACTG  
CCTTGAAGATGACCTCTAGGGACCAGCCCAGACCCAAGGGCCCCCGAAAAGCACTTCGCCTTGTCTGGGATCT  
CGAACTCTGAGAGCTCTCCGACGCTGAATTATCAGGGCATTCTAAATCGGCTCAAGCAGTTCCCCAGGTTTTCTC  
CTCATTTTGGCTGCGGAGTTGGAGAGCATTACTACTCGCTGCACAAGATCCAGCAGGATGTGGCAGAACATCACA  
AGCAGATAGGAAACGTCTTACAGATTGTGGAGAGCTGCAGCCAACCTCCAGGGTTTCCAGTCTGAGGAGGTCTCAC  
CTGCTGAACCAGCCAGCCCTGGGACGCCCCAGCAGGTGAAGGACAAGACCCTGCAGGAGTCGAGCTTTGAGGACA  
TCATGGCCACCAGGTCTCCGACTGGCTCCGGCGGCCTTTGGGGGAGGACAATCAGCCGGAGACCCAGCTGTTCT  
GGGACAAGGAGCCTTGGTTTTGGCACGACACTCTGACCGAGCAACTCTGGCGGATTTTGGCCGGCGTCCACGATG  
AGAAGGCAAAGCCCAGAGACAGACAGCAGGCACCAGGCCTGGGGCAGGAAAGCAAGGCACCAGGATCCTGTGACC  
CAGGAACAGACCCATGTCTGAAGATGCCTCCACCCCCAGGCCACCTGAGGCCTCCTCCAGTCCCCCTGAGGGTT  
CCCAAGACAGGAACACAAGTTGGGGTGTGGTCCAGGAGCCTCCTGGAAGAGCCTCTCGGTTTTCTACAGTCCATAT  
CCTGGGACCCCTGAGGACTTTGAAGATGCATGGAAGAGGCCAGATGCCTTGCCCGGGCAGTCAAAGAGACTCGCCG  
TCCCGTGCAAACCTGGAAGAGATGCGGATCTTGGCACACGGGGAGCTCGTGCTCGCCACGGCCATCAGCAGCTTCA  
CGCGGCACGTGTTACCTGTGGCAGAAAGAGGCATCAAGGTGTGGAGCCTGACTGGACAGGTGGCTGAGGACAGGT  
TCCCTGAGAGCCACCTGCCTATACAGACCCCTGGGGCCTTCTGCGCACCTGCCTGCTGTCTCAAACAGCAGGA  
GCCTGCTCACCGGTGGCTACAACCTGGCCAGCGTGAGCGTGTGGGACCTGGCGGGCGCCCTCCCTGCATGTGAAGG  
AGCAGTTGCCCTGTGCAGGTCTCAACTGCCAGGCCCTGGATGCCAACCTGGATGCCAACCTGGCCTTCGCCAGCT  
TCACCAGTGGTGTGGTCAAGGATCTGGGACCTGCGGGATCAGAGTGTGGTCAGGGACCTCAAGGGTTATCCTGATG  
GAGTCAAGAGTATCGTGGTCAAGGGCTACAACATCTGGACTGGGGGTCCGGATGCCTGTCTGCGGTGCTGGGACC  
AGAGGACCATCATGAAACCTCTGGAGTACCAATTCAAGTCTCAGATAATGAGCCTGTCCCACAGCCCCCAGGAGG  
ACTGGGTGCTGCTGGGCATGGCCAATGGCCAGCAGTGGCTGCAAAGCACCAGCGGGAGCCAGCGGCACATGGTGG  
GGCAAAAAGACAGCGTCATCTGAGCGTCAAGTTCTCCCCCTTTGGCCAGTGGTGGGCAAGCGTTGGAATGGACG  
ACTTCCTTGGCGTCTACAGCATGCCGGCGGGGACAAAAGTGTTCGAGGTGCCTGAGATGTCTCCAGTCACGTGCT  
GTGACGTCTCTTCCAACAACCGCCTCGTTGTACAGGCTCCGGGGAGCACGCCTCCGTGTACCAGATCACCTACT  
GAGGGGCCTCGCTGCTGTATCCCACTCCGGCTCCTCTTTTCATCCCCCCCCCTTCCCCCCCCCAACAAGGGGGA  
CATGGTGGAGGGAAGCGGGAAGGCTCTTCTGTGGCATCGCACGATCTAGTCTGTGGTGTAGACTGGTCGCCATCA  
CGTGTAATAAAGCACCCGGGAAAGGC

341/5332  
FIGURE 303

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT  
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT  
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAAATGCAGCGACATTATGTCATGTATTATGAGATGTC  
GTACGGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT  
CCCCCTTCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGA  
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCACCACGCACCCCCTGTGCCCCCTACCCCCCGCCC  
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGCTCTGTCTGGAGCCCTGGCTGCCAGGCTCAGCTGGC  
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGGAGGCCGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC  
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC  
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA  
CCAACCCTCAGAGCCCCCAGCCCGGCTACCACCCCCTGCGGAAAGGTACCCATCTGCATTCTGCCCGTCGGA  
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCCTGCTAGAGCCAAGGAGCTCATCCTGAA  
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCCGCCCCAGGACGCTTCCACCCCCGGGCC  
CAGCTCGGCCAGTCACTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC  
CCTGACTCTGTCCAGTCCCTTACCACGTCCTTACGCTGGGCTCCACAGCACTCTCAACGGAGACCTCTCCGT  
GCCCAGCTCCTACGTCAGCCTCCACCTGTCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGAT  
GGCATTGTAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCCCTCCCTACCCAGCATCCCTGGGGGAAAGCC  
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGGTTCCCTTCCCTCGGATGCACTGGTAGGCGC  
GGGCATCCCGCGGCACGCCCCGCGAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTACCATCAGCGG  
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC  
GCCCCGTGGCCCAGCTCGACTGCCTGAACCGAGACAACCTACATTTCGTTCTGCAAGTTGCTGCCGGATGGCCGGAG  
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTTGGGACCTGGCGGCGCCACCCCGGTATCAAGGCCGA  
GCTGACTTCCCTCAGCCCCAGCCTGCTACGCCCTGGCCGTACGCCCCGACGCCAAGGTTTGCTTCTCCTGCTGCAG  
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC  
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGGCCTGGACAACACGGTGCCTGCTGGGA  
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCCTGGGCCACTGCCCTAACCA  
GGACTGGCTGGCGGTGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGGAGAAATACCAGCT  
GCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTTGCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA  
CAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCTCAGTCCTGAG  
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT  
CTACTGAGACATGACCCCC

342/5332  
**FIGURE 304**

GCAAGGTCACGTCCTGTCCCCACCTTTTCGCCCCTCACCCCTAGCTCCCCCAACGCCAAAGACAAGGTTAAGAAAGT  
GATATCGCGAAATAGTTTTTTAAAGCATTTTATTGCATTTTATGACTTGGAGTTTATGTGAAACCTCAACGGTAT  
TAGCCGAACAGCCTGCCGCACCTTCCGGGAGTTCCAGAGTGGGCCTACAACCTCCACAGGGCTCCGCGAGCGCCG  
GACGGACGGACTACAATTCCCGACAGGCAGCGCGGCTGGCGGGGCGGTTCCGCGCGGTGCCACAGGACCTCAGG  
GCGAGTGCGGGCTGCCCCGCGCGGCCGCGAGGACCCCGGCGGCTACCCATGCCGAGGTGAGTCCGCGGGAGCC  
GCCGCCGCCGCCGTCCCGTCCCAGCTGCCGCCCCGCGCGGCCCGCCGCCGCGCCAGGATGCTGGAGGAAGCGGGC  
GAGGTGCTGGAGAACATGCTGAAGGCGTCTTGTCTGCCGCTCGGCTTCATCGTCTTCTGCCCCGTGTGCTGCTG  
CTGGTGGCGCCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTCACCGTGTACCGCATGCAGCAGTACGACCTG  
CAGGGCCAGCCCTACGGCACACGGAATGCAGTGTGAACACGGAGGCGCGCACGATGGCGGGCGGAGGTGCTGAGC  
CGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCCTACGAGCAGTACCAGAAGGGCCCTGCGGCAGTCGGCGGGC  
GCCGTGGTCAATCATCCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCGTCCGGCAATTCATGGAGATCGAG  
CCGGAGATGCTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGACGAGGCCCTGCTGTCTATCTAC  
AAGCAGACCCAGGCTGCCTCCGCCCTCCCAGGGCTCCGCCTCTGCTGCTGAAGTACTGCTGCGCACGGCCACTGCC  
AACGGCTTCCAGATGGTCAACAGCGGGGTACAGAGCAAGGCCGTGAGTGACTGGCTGATTGCCAGCGTGGAGGGG  
CGGCTGACGGGGCTGGGCGGAGAGGACCTTCCCACCATCGTCATCGTGGCCACTACGACGCCTTTGGAGTGGCC  
CCCTGGCTGTGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCTGGAGCTGGCACGCCTCTTCTCC  
CGGCTCTACACCTACAAGCGCACGCACGCCGCCTACAACCTCCTGTTCTTTGCGTCTGGAGGAGGCAAGTTTAAAC  
TACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAGCCTGCTTCAGGACAATGTGGCC  
TTCGTGCTGTGCTGGACACCGTGGGCCGGGGCAGCAGCCTGCACCTGCACGTGTCCAAGCCGCCTCGGGAGGGC  
ACCCTGCAGCACGCCTTCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAAGTTCCTGAGGTACGGTTCTCCATG  
GTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCGCTTCGCCATCCGCCGACTGCCC  
GCCTTACGCTGTCCACCTGGAGAGCCACCGTGACGGCCAGCGCAGCAGCATCATGGACGTGCGGTCCCGGGTG  
GATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCGAGTCATCTACAACCTGACAGAG  
AAGGGGACACCCCCAGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCAGGAGCAGCTGGACTCGGTGATG  
GACTGGCTCACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCACCTTCTCAGCACGCTGGAGCAC  
CACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAAGCGGGACCCAGAGTTTGTCTTC  
TACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGTCTTTGACCTGCTCCTGGCTGTTGGC  
ATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCTCTACAAGACCGTCCAGAGGCTG  
CTCGTGAAGGCCAAGACACAGTGAACACAGCCACCCCCACAGCCGAGCCCCCGCGCTCCACAGTCCCTGGGGCC  
GAGCACGAGTCGTATGATGGATGCACTGACTGACCGTCTGGGGCTCAGGCTGGTGTGGGATGCAGCCGGCCGAT  
GAGAAAATAAGCCATATTGAATGATC

343/5332  
**FIGURE 305**

AGTCAGCCCCCGGGGGAGGCCATGAACGCCACGGGGACCCCGGTGGCCCCCGAGTCCTGCCAACAGCTGGCGGCC  
GGCGGGCACAGCCGGCTCATTTGTTCTGCACTACAACCACTCGGGCCGGCTGGCCGGGCGCGGGGGCCGGAGGAT  
GGCGGCCTGGGGGGCCCTGCGGGGGCTGTGCGGTGGCCGCCAGCTGCCTGGTGGTGGTGGGAACTTGCTGGTGCTG  
GCGGCCATCACCAGCCACATGCGGTGCGGACGCTGGGTCTACTATTGCCTGGTGAACATCACGCTGAGTGACCTG  
CTCACGGGCGCGGCCTACCTGGCCAACGTGCTGCTGTGCGGGGGCCCGCACCTTCCGTCTGGCGCCCGCCAGTGG  
TTCCTACGGGAGGGCCTGCTCTTCACCGCCCTGGCCGCCTCCACCTTCAGCCTGCTCTTCACTGCAGGGGAGCGC  
TTTGCCACCATGGTGCGGCCGGTGGCCGAGAGCGGGGCCACCAAGACCAGCCGCGTCTACGGCTTCATCGGCCTC  
TGCTGGCTGCTGGCCGCGCTGCTGGGGATGCTGCCTTTGCTGGGCTGGAACTGCCTGTGCGCCTTTGACCGCTGC  
TCCAGCCTTCTGCCCCCTCTACTCCAAGCGCTACATCCTCTTCTGCCTGGTGATCTTCGCCGGCGTCTCTGGCCACC  
ATCATGGGCCTCTATGGGGCCATCTTCGCGCTGGTGCAGGCCAGCGGGCAGAAGGCCCCACGCCAGCGGGCCCGC  
CGCAAGGCCCGCCGCTGCTGAAGACGGTGTGATGATCCTGCTGGCCTTCCTGGTGTGCTGGGGCCCACTCTTC  
GGGCTGCTGCTGGCCGACGTCTTTGGCTCCAACCTCTGGGGCCAGGAGTACCTGCGGGGCATGGACTGGATCCTG  
GCCCTGGCCGTCTCAACTCGGCGGTCAACCCCATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGTG  
CTCAGCTTCTCTGCTGCGGGTGTCTCCGGCTGGGCATGCGAGGGCCCCGGGACTGCCTGGCCCGGGCCGTGAG  
GCTCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTCCCGCTCGCTCAGC  
TTTCGGATGCGGGAGCCCCGTGCCAGCATCTCCAGCGTGCGGAGCATCTGAAGTTGCAGTCTTGCGTGTGGATGG  
TGCAGCCACCGGGTGCCTGCCAGGCAGGCCCTCTGGGGTACAGGAAGCTGTGTGCACGCAGCCTCGCCTGTATG  
GGGAGCAGGGAACGGGACAGGCCCCCATGGTCTTCCCGGTGGCCTCTCGGGGCTTCTGACGCCAATGGGCTTCC  
CATGGTCAACCTGGACAAGGAGGCAACCACCCACCTCCCCGTAGGAGCAGAGAGCACCTGGTGTGGGGGCGAG  
TGGGTTCCCCACAACCCGCTTCTGTGTGATTCTGGGGAAGTCCCGGCCCTCTCTGGGCCTCAGTAGGGCTCCC  
AGGCTGCAAGGGGTGGACTGTGGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTA

344/5332  
**FIGURE 306**

TGTTCCCAGCACTCAAGCCTTGCCACCGCCGAGCCGGGCTTCCTGGGTGTTTCAGGCAAGGAAGTCTAGGTCCCT  
GGGGGGTGACCCCCAAGGAAAAGGCAGCCTCCCTGCGCACCCGGTTGCCCGAGCCCTCTCCAGGGCCGGCTGGG  
CTGGGGGTTGCCCTGGCCAGCAGGGGCCCCGGGGGCGATGCCACCCGGTGCCGACTGAGGCCACCGCACCATGGCC  
CGCTCGCTGACCTGGCGCTGCTGCCCCCTGGTGCTGACGGAGGATGAGAAGGCCGCCGCCGGGTGGACCAGGAG  
ATCAACAGGATCCTCTTGAGCAGAAGAAGCAGGACCGCGGGGAGCTGAAGCTGCTGCTTTTGGGCCCAGGCGAG  
AGCGGGAAGAGCACCTTCATCAAGCAGATGCGGATCATCCACGGCGCCGGCTACTCGGAGGAGGAGCGCAAGGGC  
TTCCGGCCCCCTGGTCTACCAGAACATCTTCGTGTCCATGCGGGCCATGATCGAGGCCATGGAGCGGCTGCAGATT  
CCATTGAGCAGGCCCCGAGAGCAAGCACCGCTAGCCTGGTTCATGAGCCAGGACCCCTATAAAGTGACCACGTTT  
GAGAAGCGCTACGCTGCGGCCATGCAGTGGCTGTGGAGGGATGCCGGCATCCGGGCCTACTATGAGCGTCGGCGG  
GAATTCCACCTGCTCGATTGAGCCGTGTACTACCTGTCCCACCTGGAGCGCATCACCGAGGAGGGCTACGTCCCC  
ACAGCTCAGGACGTGCTCCGCAGCCGCATGCCACCACTGGCATCAACGAGTACTGCTTCTCCGTGCAGAAAACC  
AACCTGCGGATCGTGACGTGCGGGGCCAGAAGTCAGAGCGTAAGAAATGGATCCATTGTTTCGAGAACGTGATC  
GCCCTCATCTACCTGGCCTCACTGAGTGAATACGACCAGTGCCTGGAGGAGAACAACCAGGAGAACCGCATGAAG  
GAGAGCCTCGCATTGTTTGGGACTATCCTGGAATACCCTGGTTCAAAAAGCACATCCGTCATCCTCTTTCTCAAC  
AAAACCGACATCCTGGAGGAGAAAATCCCCACCTCCCACCTGGCTACCTATTTCCCCAGTTTCCAGGGCCCTAAG  
CAGGATGCTGAGGCAGCCAAGAGGTTTCATCCTGGACATGTACACGAGGATGTACACCGGGTGCGTGGACGGCCCC  
GAGGGCAGCAAGAAGGGCGCACGATCCCGACGCCTCTTCAGCCACTACACATGTGCCACAGACACACAGAACATC  
CGCAAGGTCTTCAAGGACGTGCGGGACTCGGTGCTCGCCCGCTACCTGGACGAGATCAACCTGCTGTGACCCAGG  
CCCCACCTGGGGCAGGCGGCACCGGCGGGCGGGTGGGAGGTGGGAGTGGCTGCAGGGACCCCTAGTGTCCCTGGT  
CTATCTCTCCAGCCTCGGCCCCACACGCAAGGGAGTCGGGGGACGGACGGCCCGCTGCTGGCCGCTCTCTTCTCTG  
CCTCTCACCAGGACAGCCGCCCCCAGGGTACTCCTGCCCTTGCTTGACTCAGTTTCCCTCCTTTGAAAGGGAAG  
GAGCAAAACGGCCATTTGGGATGCCAGGGTGGATGAAAAGGTGAAGAAATCAGGGGATTGAGGACTTGGGTGGGT  
GGGCATCTCTCAGGAGCCCCATCTCCGGGCGTGTACCTCCTGGGCAGGGTTCTGGGACCCCTCTGTGGGTGACGC  
ACACCTGGGATGGGGCTAGTAGAGCCTTCAGGCGCCTTCGGGCGTGGACTCTGGCGCACTCTAGTGGACAGGAG  
AAGGAACGCCTTCCAGGAACCTGTGGACTAGGGGTGCAGGGACTTCCCTTTGCAAGGGGTAACAGACCGCTGGAA  
AACACTGTCACTTTTCAAGAGCTCGGTGGCTCACAGCGTGTCTGCCCCGTTTGGCGACGAGAGAAATCGCGGCC  
ACAAGCATCCCCCATCCCTTGCAGGCTGGGGGCTGGGCATGCTGCATCTTAACCTTTTGTATTTATTCCTCAC  
CTTCTGCAGGGCTCCGTGCGGGCTGAAATTAAAGATTCTTAG

345/5332  
**FIGURE 307**

AGCCGATGTCAGTCTGGTGTGGCAGGAGGGGCTTGGGTGGGAGCCGTCCTGGGATTGCAGATTGGGCCTTGGGGC  
GCCAGGTGGCTGAGTCCTGGCGCTGTGTCTTTTCAGGATGGTGGATGTGGGGGGCCAGCGGTCCGAGCGGAGGAA  
GTGGATCCACTGCTTTGAGAACGTGACATCCATCATGTTTCTCGTCGCCCTCAGCGAATACGACCAAGTCCTGGT  
GGAGTCGGACAACGAGAACCGGATGGAGGAGAGCAAAGCCCTGTTCCGGACCATCATCACCTACCCCTGGTTCCA  
GAACTCCTCCGTCATCCTCTTCTCAACAAGAAGGACCTGCTGGAGGACAAGATCCTGTACTCGCACCTGGTGGGA  
CTACTTCCCCGAGTTCGATGGTCCCCAGCGGGACGCCAGGCGGCGCGGGAGTTCATCCTGAAGATGTTCTGTGGA  
CCTGAACCCCGACAGCGACAAGATCATCTACTCACACTTCACGTGTGCCACCGACACGGAGAACATCCGCTTCGT  
GTTCCGCGCCGTGAAGGACACCATCCTGCAGCTCAACCTCAAGGAGTACAACCTGGTCTGAGCGCCCAGGCCAG  
GGAGACGGGATGGAGACACGGGGCAGGACCTTCCTTCCACGGAGCCTGCGGCTGCCGGGCGGGTGGCGCTGCCGA  
GTCCGGGCGGGGCTCTGCCCCGCGGGAGGAGATTTTTTTTTTTTTCATATTTTAAACAAATGGTTTTTATTTTACA  
GTTATCAGGGGATGTACATCTCTCCCTCCGTACACTTCGCGCACCTTCTCACCTTTTGTCACGGCAAAGGCAGC  
CTTTTTCTGGCCTTGACTTATGGCTCGCTTTTTTCTAAAAAAGAAAGAAAGAAAAAAGCAACGA  
AACATAAAACACACAAGCGCCCCGTGCCCCAGTGACTCTGGGCCTCACAGAGCCCCCGCCAGCCAGCATGGGGC  
CCCGCCCTGCAGCCAGTCACGCGCCCCACACCGCAGCCCCCTGTGGCTGTCTTCCAACCCACGTGCTTTTTTC  
TTTCTCCTGCCGCTTCTTTTCTTCATCAGAAAGGCGTGGAGACTCGGAGACGGACGTTTTTCCCTTTTTTAA  
GTTATTGACGCCAGCGCGCTCGCTCTTACCCATCAACGCTGTGCTTTGCCACTGGACTCCTGAAGAGGGG  
GTGGGGGGCTCCCTCGGTGCCCCACCTGGGAAGTGCCTAACCTTTTATTTTATTTTATTTTGGAGGAAAAG  
AACGCTGACTCACAGGTTGAAGAAACACCTGGGCCCTCTCTCATGGCCGGGTCCCCGTCCCTCTGCAGAGGC  
TGGGAAGGGTCCCCGGGCTGGAGCCACGGGGCTTCTCTGGGCTGTGCTCCGGGGCCAACACTGGCTGCTTGGG  
GCTGCCCGGGGACTCCAGAGGGCTGCACGGCCACCTGCCCTGGCTAGAGCGCACCCACCGGAGCCACGTTGGG  
CTGGGCGGCTGGAGGGATGGTCCCCGGTGACACTGGGAGAAAGGCCACTTGGATGGGGGCGTTTCTGTTTTGTT  
CCGCTTTGTGATGTCACCAATTTGGAACAGCGAGGGTGGGTGGGGACTTTTACAGAATATTCTCAGGTGTGTAC  
CCGAGAGGCAGAGAGAGGGACGTGGCCGGCAGCTCTGTGCGTGGCCTTGTCCAAGCACTTGCGCCCGCCCCGA  
GCGCCGCCCCGGGGAGCGGGAAGCCAGCACTCGCACTTTGGCCAGGGGCGCGTGAAGGTGGTGGCAGGCACCG  
GCCTGGGCAGCTTCCAGGCCTGGCTGGCCACGACCACGGCCGAGGGGGAGCCCGCCAGGCCACGCCGCACTGAG  
CCACAGCCCCGGGGCGCCTCCCGGGGCCCCCTTGAGGCCTGAGGCACCGAGACTGGTTCTCCCCGAGAGACTC  
GGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTCTGTCTGCTGTTGACTGAACACTACAGCGCC  
CTGTGGTTCCGGGCTTCGCACAGCTGTCCAGGGATGGATCGCCTGTGCTGCCTTCGCCCCGCCACACCGGGA  
CCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTCCAACCAGCAGT  
TCCCGCCTGCCTGCCCGCCACTGTGAGGCCTGCCCTGCCCTCCTCGTCCGAGGGCTGTCTGCTGGCTTCTGGGG  
GCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTCAGGGCAGCTACATTTCTGGTGATCAGCCC  
CATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACCCGGAAGCGTCC  
TTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCATGGCGAGTGCTGGGGCCCGCGGT  
GCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGCCCTCTGGGGGG  
CCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGTGGAGTCGCCCA  
GCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCAGGGAGGGGGCGTGCCAAGCATCCAGAGCC  
GGGCTGGGACCGCCAAAACGTCGTGGCCTGGATCCTCTGGGTCTGAGTGCCTGATCCCCTGCCCCCAAAAAGC  
AGAGGTAGGTGTTGCAGGCCACGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGGTTCTCGTGCCAGTG  
GCACCCAGGGGCAAGGACAGCCAACCCCAACCTTGCCACGTGTGGGGCCACGTGGGCATGTGGGGTGTGTGTTT  
TTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCGACCACCTTCTCCGACCATGTTACGCCCGGG  
CGGCAGCAGCCCCCGGCCACTGCAAACCATGCCCTGGGTCCCCCGGCTCCCCAGGGAGGCATCCCCGTGCCAA  
TGTCCCCCAGTGGTGGCAGCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAG  
TCCTGATTTACAGACAATTTCAACCTTAATCTATTTAAAAAAGAATATTTCTATAC

346/5332  
**FIGURE 308**

GGCCGCCCCGGCGCCCCCAGCAGCCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCCGCGCCCCCGCCGCGATTGA  
**CATG**ATGTTTCCACAAAGCAGGCATTCGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC  
CTGCGACCGCATCAAAGACGAATTTACAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT  
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT  
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCAGGTTCCTGCCCTACCTCTCCCAAGAGCA  
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTACCGCTCCCGAGCTGAACTCTATCATCCGACA  
GCAGCTCCAAGCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA  
GCCGCCTTCGCTGCCGGCGGTCAGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCCCAGGCCCACCT  
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATT**TAG**CAGGG  
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG  
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCAGCTT  
GCAGGCCACCTCTAGCTTTCTTCCTACCCCATTCCTGGCTTCCCTCCTCCTCCCCTGCAGCCTGGTTAGGTGGAT  
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT  
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT  
CTCACCTGGTACTGCATGCACGAATGCTAGCTGCCCTTTCCCGTCCTGGGCACCCCGAGTCTCCCCGACCC  
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTCACCTCTGCTAGTTCCAGACACCTCCACGCCCAC  
CTGGTCTCTCCCATCGCCACAAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG  
GGTGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAAGATGAGGGTACT



347/5332  
**FIGURE 309**

TCCCCGGGGGGGTTTCGCCTCCTCTCCTTGGGGGCTTTATGTCCTTCTCTCCCCACCTGCAGGTCCCGAGGGCT  
GTAACCTGTTTATCTACCACCTCCCCAGGAGTTTGGAGACACGGAGCTGACGCAGATGTTCTTACCCTTCGGCA  
ATATCATTTCTTCCAAGGTGTTTATGGATCGAGCTACCAACCAGAGCAAGTGTTTCGGCTTCGTGAGCTTTGATA  
ACCCGGCCAGCGCCAGGCAGCCATCCAGGCCATGAACGGCTTCAGATCGGCATGAAGAGGCTCAAAGTCCAGC  
TGAAGCGGCCCCAAAGACCCGGGACACCCCTACTGACCGCGCCACAGCCGCCCTGAGGCTGTAGGCATGGCCCAG  
GTGAGGGGCCTTCCCATCCCAGGAGGGTTTTCTGCTTCCAACCGATCCAGGACTTACCCATAAATTCCAACCGTT  
CTTTGGACACCAGCCCTTTCCTCCCCTCTTCTCCCCTTGCCCTGCCCCCTCTACTGGAGGCCACCTGGAGTGGCGA  
GGGGCCTTTGGGGTCTGTCCTGGGGCAGGGGCGGGGGTGGGGGAGGCTCCTGAATCGTGGGCAGAAGTGTTCACA  
CGCCCCCCTGCTTTGGGAAACGCTCTCGCTTCTTCCCCACAAACTTGGTGACTTCCCCAACTAAATCACACC  
TTTTCTATATATATATATATATGCATATATATATAGATCTATAGACAGTATATATATATTTTGAGTACGGATCATG  
GGACCAAACCTTTCCGACTTCCTTCCATCCGAGTAGAGTGACCCCTGGGCCGGTCACTCAGCGGGGGACACAGGAA  
GGGCTGAGGTGGCGGGACCCCGCGCAACACATACC

348/5332  
**FIGURE 310**

GT TTTCCCTGCTGAAAACCCAAACACCAGACGGAAATGCCAAGTGCCCACCCAGACCCCAAACCCCTAAGGTTGGA  
CCCCAACTCGGAACCAGGAGTGGAGCGTGGAAGGTGGGGACAGTGCTCAGGGCCCAGTCCAGTTGGCACTGACAG  
CTTCCAGTGTCCTCCGCTCCATTTCCACTAGTTCCCTGGGACAAGCGGCCCTCACTGGGTGTCATTCTACCCA  
ATGAGTTGATGGAAGAGTGGGATTCTGTGCCCCACCCACCATCATGCAAGAAAAACAAGCAAAACGAAACCCAGAC  
TG TAGTTTGCCATCAGGGCAAACCACTTTCTCAACATTTTTTTGTGGGGGGATGAACAGTAAACCTTGTGGGGCC  
ACTGTGGAACCTTAACCGTGGGTCTCAAACCTTGATGAGCCTCATCTGTAAAATGGGTTCAGAAAGTCATCTCC  
CCAGAGACGGCGGAAACGGTCCACCTAGGGAACAGAGTGGGGCATCTTTTCGCAGCCGAGCCCAGAACCCATCAC  
CTAAAGAGTTCTGGATGATTCTGTTTTGATTTTTTTTTTTTTTAAATCACCATCGCTGTCTCATCAGAGTCTCGC  
CTAGGGCCTGGCACAGAGTAGACGCTCAGTTAGAAGCTGTCTGGCCTTTTCACCTTCTCCCGGGTCAGCACACAC  
AGATTTGGGAGTATTTACCTGCACAGAACGCACCTTCAGGAACCTGCCAACCAGAAAGCAAAATCCAAAGCTGCTCT  
CTGCGATCCCTTCACTTTTAACTCTCAGTCTGCACTTTTTTTTTTTAACTGAGCATCTATTATGTGCTAGGCACT  
GTTCCAGTGCTCGGGGACGCAGCTGTGAATGAACAGAAACGGGGGATGGAGGACAGGGGAGAAACCCCTTCACG  
GGCCTTAGATGGCAGGGGGTAGGGAAGGAGAGACAGAAAATAAACAGAAATATCTGTCCCCAGCTGCCAGAGGAG  
GAGGAAATGGGCTTGGTGATGGTGACATTAAGTTCTTTGAAAGCTGGGTTTGTGGCCTCTGAACCTCTGGCCTTT  
GTGGGATCTGTTCTTTTGAAAGATGGGAGCCCCCTGTGTTTCTAGATCCAGCCTGGCCGGGTGGAGTAGGGTG  
GGGAGGTGGTGTCACCTGTGTGGCCCCGTCTCTCACTCCCTAACGCCCGTCCCTTCTCCCCAGGTGAGGGGCCT  
TCCCATCCCAGGAGGGTTTTCTGCTTCCAACCGATCCAGGACTTACCCATAAATTCCAACCGTTCTTTGGACACC  
AGCCCTTTTCTCCCTCTTCTCCCTTGCCCTGCCCTCTACTGGAGGCCACCTGGAGTGGCGAGGGGCCTTTGG  
GGTCTGTCTGGGGCAGGGGCGGGGTGGGGGAGGCTCCTGAATCGTGGGCAGAAAGTGTTCACACGCCCCCTG  
CTTTGGGAAACGCTCTCGCTTCTTCCCCACAAACTTGGTGACTTCCCCAACTAAATCACACCTTTTCTATAT  
ATATATATATGCATATATATATAGATCTATAGACAGTATATATATATTTTGTAGTACGGATCATGGGACCAAACCTT  
TTCCGACTTCCCTTCCATCCGAGTAGAGTGACCCTGGGCCGGTCACTCAGCGGGGGACACAGGAAGGGCTGAGGTT  
GGCGGGACCCCGCGCAACACATACCAGGTGCCCCACCCCAACCCCAACCTCCTGGCTGGCACATCCCACCAG  
GAACCCGCCAACACAACATACCTCCAGGACTTTTGGCACCCCCCAACCAATTCCTCCAGGGCCGTGGGCTCTG  
CCAGCTTCAGTGTCCTGGTCCCAGCTGCAGCCTCCAGACCCACCTCGCCCCCTTCGTCCCAGAGCCCTGCCCTC  
CGGGATGGATATAGGTACAACAGAGACGCTCTGGCCTGCCTCAGCCCTTCTCTGCTCCCCTGCCCGAGTCATAGC  
CTTACTCATGTGACCAATAGCCCTTAGCTTTCCGTCGGAGGGGGGGGGCGGACAGGGTTGGGGGGAGCCCCCTG  
CCCCTCACACCCCTCCCAAGGCCAGGCAGCCATTGTCCCTGCCTTCGAATCACCAGCCTCGAATTTAAGGTCT  
TGTAACCAGGATTGCCAAGCGTAGCGGAAGACCCTACCCGGACCGGCCAAGCACCCCTTTAACTGGAGACGAACT  
TGATAATGACCTTCATACCTCTACAGAGATTTTTTTTTTTTTTCCGGTCTTTCTGAGCAGGTACAAAGAAGAAAAG  
AGAAGAAAAAGATGGGGGGAATAATCAAACCACAATGGATTTTTGTTTCTAGTTGGGAGTGGGGTGGGGTGGG  
GTGTCTTTGTGAGGGTGCCTCTGTACAGCTGCCAATCCGCGACACCCACGTCAAAGCACAGCATCAAGTTCGTT  
TGGACATCCGGCAAGGCCTCTTACCAAATGAGGCGCCAGATAACTTAATAAGCTCAAAAGAAAAAACATTTAAA  
AAGAAAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
GGGGGCGGTAGGGTGGGGGAAACCACACAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA

349/5332  
**FIGURE 311**

AATGACTCAGTAAGTTCAGCGCGCCCGCTCCGGCCGGCCCTGCGCCTCCCGCCGCGCCCGGGATGTATTTCGTCCC  
CGCTCTGCCTCACCCAGGATGAGTTCCACCCGTTTCATCGAGGCCCTGCTGCCTCAGTCCGCGCCTTCGCCTACA  
CCTGGTTCAACCTGCAGGCGCGGAAGCGCAAGTACTTCAAGAAGCACGAGAAGCGGATGTCTGAAGGACGAGGAGC  
GTGCGGTCAAGGACGAGCTGCTGGGCGAGAAGCCCGAGGTCAAGCAGAAGTGGGCGTCGCGGCTGCTGGCCAAGC  
TGCGCAAGGACATCCGGCCCCGAGTGCCGCGAGGACTTCGTGCTGAGCATCACCGGCAAGAAGGCGCCGGGCTGCG  
TGCTCTCCAACCCCGACCAGAAGGGCAAGATGCGGCGCATCGACTGTCTCCGGCAGGCGGACAAGGTGTGGCGGC  
TGGACCTGGTCATGGTCATCCTGTTCAAGGGCATCCCGCTGGAGAGCACCGACGGCGAGCGCCTGGTCAAGGCTG  
CGCAGTGGGTCACCCGGTCTGTGCGTGCAGCCGCACACATTGGCGTGGCCGTCAAGGAGCTGGACCTCTACC  
TGGCCTACTTCGTGCGTGAGCGAGATGCAGAGCAAAGCGGCAGTCCCCGGACAGGGATGGGCTCTGACCAGGAGG  
ACAGCAAGCCCATCACGCTGGACACGACCGACTTCCAGGAGAGCTTTGTACCTCCGGCGTGTTCAGCGTCACTG  
AGCTCATCCAAGTGTCCCGGACACCCGTGGTGACTGGAACAGGACCCAACTTCTCCCTGGGGGAGCTGCAGGGGC  
ACCTGGCATAACGACCTGAACCCAGCCAGCACTGGCCTCAGAAGAACGCTGCCCAGCACCTCCTCAGTGGGAGCA  
AGCGGCACAAATCGGGCTCGATGGAGGAAGACGTGGACACGAGCCCTGGCGGCGATTACTACACTTCGCCCAGCT  
CGCCCACGAGTAGCAGCCGCAACTGGACGGAGGACATGGAAGGAGGCATCTCGTCCCCGGTGAAGAAGACAGAGA  
TGGACAAGTCACCATTCAACAGCCCCGTCCCCCAGGACTCTCCCCGCTCTCCAGCTTCACCCAGCACACCAGGC  
CCGTATCGCCGTGCACAGCGGGATCGCCCGGAGCCACACCCGTCTCCGCTCTGCATTTCCCTACGACGTCCA  
TCCTACCCCAGACGGCCTCCACCTACTTCCCCACACGGCCATCCGCTACCCACCTCATCTCAACCCCCAGGACC  
CGCTCAAAGATCTTGTCTCGCTGGCCTGCGACCCAGCCAGCCAGCAACCTGGACCGTCTGGTATCTGGGATAGC  
AAAGGTCTTCTTCCCTCGCCCCCTTCTCCATCGTCCCAGGAATCCAGGGGGCAGCACAGCCGGCCCCCGGCCAC  
GTTTTTCGGTGGAAAATTAGAGTGAACAAGAACACCCCTGCCGACTCCCAGCCCGGCCAAAAAGACAAAACACATA  
GACGCACACACTCAGGAGGAAAAGAAAAAACAAGGCAGAAGAAGAAGAAGAAATAAAAAACCCACCCAAGCA  
AGAAGACAAAAGGTAAAGACGCAACGTTTCCAACCTCTCGGGACGCCAAGGCCGAGGACTGGAGGGCCAGGCCCC  
GCCACCCCCACGGGAGACCCGGGACAGGGCGTCTTCTTAAGTTATTATCTCTCTCCGCTGCTGCTCGGGAAG  
GACAGACGCCCGGCCCGCCCGCCCGGAGGCCCTGGCTCTGTCCGAGACCAGGTGAGCACAGCCTGGAGC  
CTGTGCCCAGGGCCGACAGGCGCGACACCCAGCAAGGCCACCTCTCCCCGGGCCCCCGCGCCTCTGCCGGACACG  
GACCGGCCCTCAGCCCCACCGAGGACGCAGCCACTGGGGGGAAAGGGAGACACAGCGGACCCCGGCCGGGCAG  
CGGAGACCGCAGAGGCGGGCAGGGTGGGGCAGGCGAGTGGTGTGCGGGGGTGCCTGGCGCTTGCGAGCCCTGGC  
CAGGGGAGGAAGTGAGGCCAGGCACCTGCTGCCCTCGAGGGGGCCCTGCCTGCCGCGGGGCTCCCCACAAGC  
CCCTCCCAAAGCGCCGGCCGACTCGCTGTCTCGCTGGGGACTCTTTCAGCCCTCGCGCCCGCCGTTTGGGAGGA  
GAAGTCTCTATGCAATTGGCCCCGGCCCTCCACCCCCACCCCGGCATAGGAGGCCCCCCCCACCTCGCCCGGC  
TCACACCCCCACTTCTCTTTAA

350/5332  
**FIGURE 312**

GGTGGTGGCAGAGGCGCCTGCGGTTACTGGCCGGGCGACGGGTCTGAGTCTCCAGAGCTCGGTGAGGCGTCCC  
GGAGGCGGCGATCACGGTTCTTACATCCCCGCGTCCCCAGGTTTAGCCTGAGCAGGGTTGTGGAAGGCCGGGACC  
CATTGACAGCACGATCGGTGACGGAGCAGGAGGTGGATGCCATCGGGCAGACGCTGGTGGACCCCAAGCAGCCCCT  
GCAGGCCCCGCTTCCGGGCGCTGTTACGCTGCGTGGGCTCGGCGGCCAGGCGCCATTGCATGGATCAGCCAGGC  
CTTCGATGACGATTCCGCCCTGCTCAAGCACGAGCTGGCCTACTGCCTGGGCCAGATGCAGGATGCCCGCGCCAT  
CCCCATGCTGGTGGACGTGCTGCAAGACACCCGTCAGGAGCCCATGGTGCGCCATGAGGCAGGGGAGGCCCTGGG  
GGCCATCGGGGACCCGGAAGTTCTGGAGATCCTGAAGCAGTATTCTCGGACCCCGTCATCGAGGTGGCCGAGAC  
CTGCCAGCTGGCCGTGCGCAGGCTGGAGTGGCTGCAGCAGCACGGCGGGGAGCCGGCGGGGAGCCCTACCTCTC  
CGTGGACCTGCCCCGCGGCTGAGGAGCGTGACGTGGGGCGCCTGCGGGAGGCGCTGCTGGATGAGTCCCGGCC  
GCTCTTCGAGCGATAACGCGCCATGTTGCCCCGCGCAACGCGGGAGGCGAGGAGGCCGCCCTGGCGCTGGCCGA  
GGGTCTGCACTGTGGGAGCGCCCTCTTCCGCCACGAGGTGGCTACGTCCTGGGACAGCTGCAGCACGAGGCGGC  
GGTGCCCCAGCTGGCGGCGCCCTGGCCCCGATGCACCGAGAACCCCATGGTGCGGCACGAGTGCGCGGAGGCCCT  
GGGCGCCATTGCCCCGCGCCGCTGCTGGCCGCGCTGCAGGCTCACGCGGACGACCCAGAGCGCGTGGTGCCTGA  
GAGCTGCGAGGTGGCTCTGGACATGTATGAGCACGAGACCGGGCGGGCCTTCCAGTACGCGGACGGCCTGGAGCA  
GCTGCGCGGGGCCCCCTCTCTAGGGCCCCACCCTCACCCGGAGCTCCCGGAGGACTCTTGAGGGCGCTCCTCCCC  
CGCAGAGCTTTGGCGTCTAAACCGGGTGTGTGTAAATCGGTGTATCGCTTGTGTCTTGCTGGGCGCATGGTTGC  
TGTCCTCCCTCCTCCGTCTGGGACCGAGGAGCTGCCGTTGTGCTGTGACTCCCTGAGTCCCCTGACTGCTCCTCGG  
GGCCTGGCGCAGGGCTGTAGCGTGGAAGTTTCCAGGCTTGGGGTGGGACTCTGCGGGAGGCTCTGGGATGCCCGG  
CTCAGGACAGGGGAGGATTGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAG  
CCAGGGGAGGATCGCGAGGGAAGCCAGGGGAGGATCGCGAGGGAAGCCAAGGGAGGATCGCGAGGGGAGCCAGGG  
GAGGATCGCGAGGGAAGCCAGGGGAGGCTGGGGCTCTGGGAAGAGGCTGACGTTATGGTGGCTTCAGCTTAC  
TAGGAATGGGACACAGGGTCTGGGGGCTCTGACTCCCCACCCGAGGCTGGGTAGGGACAGGGTGGTGGTCC  
CTGAGTGGGTGAGGTAGGGCACAGGGGCCAGGGAGGGACAAGCAGACCTCAGAGCGCTGCCAGATGGAATATTA  
AATTATTTTTGCCAA

351/5332  
**FIGURE 313**

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA  
GAGATGCGGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGCTCCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC  
TCCAGAGCCGGAGCCAACTGGAGCGTGAACCTCCACAGGATTAACGAGAATGAGAAGTCTCCCAGTCAGAACCGG  
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG  
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCGAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG  
GGTCTGTTACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG  
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC  
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG  
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC  
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG  
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG  
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCCGATGATCCTGCAGAGGGACATCCGCACC  
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC  
CAGCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG  
TACACGGAGCACCTGGCGGCCGTGAAGGCCATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC  
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC  
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGCTACTCACAGAACCAGATC  
CTTGCTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA  
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGTGAGACGAGACCCCTGAGGTTCTGGAACGTCTTTAGCAAA  
ACCCGTTGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGGTAA

352/5332  
**FIGURE 314**

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA  
CCTTGGAGACAGGCCTTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC  
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC  
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG  
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG  
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA  
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTACCAATTAAATTCTACTTCCTGTCCAAAAAAAAAA

353/5332  
**FIGURE 315**

GCTCGGGTGAGGAGCTGGTGGCGTCGGCAGGTTTCGAGGCGATTTCGAGCTCCAGCTAGGATGATCGAGGTTGTTTG  
CAACGACCGTCTGGGGAAGAAGGTCCGCGTTAAATGCAACACGGATGATACCATCGGGGACCTTAAGAAGCTGAT  
TGCAGCCCAAACCTGGTACCCGTTGGAACAAGATTGTCCTGAAGAAGTGGTACACGATTTTTAAGGACCACGTGTC  
TCTGGGGGACTATGAAATCCACGATGGGATGAACCTGGAGCTTTATTATCAATAGATGAGAATCCTCATCTTCCT  
GCCCCGCTTTCCTCTCCCATCCTCATCCCCACACTGGGATAGATGCTTGTTTGTA AAAACTCACCTTAATAAAG  
ACTTAGATGTTG

354/5332  
**FIGURE 316**

GAGGGAAGATGCGGACGAGGAGAAGCTGCCGCCCGGCTGGGAGAAGCGCATGAGCCGCAGCTCAGGCCGAGTGT  
ACTACTTCAACCACATCACTAACGCCAGCCAGTGGGAGCGGCCAGCGGCAACAGCAGCAGTGGTGGCAAAACG  
GGCAGGGGGAGCCTGCCAGGGTCCGCTGCTCGCACCTGCTGGTGAAGCACAGCCAGTCACGGCGGCCCTCGTCCT  
GGCGGCAGGAGAAGATCACCCGGACCAAGGAGGAGGCCCTGGAGCTGATCAACGGCTACATCCAGAAGATCAAGT  
CGGGAGAGGAGGACTTTGAGTCTCTGGCCTCACAGTTCAGCGACTGCAGCTCAGCCAAGGCCAGGGGAGACCTGG  
GTGCCTTCAGCAGAGGTCAGATGCAGAAGCCATTTGAAGACGCCTCGTTTGCGCTGCGGACGGGGGAGATGAGCG  
GGCCCGTGTTACGGATTCCGGCATCCACATCATCCTCCGCACTGAGTGAGGGGTGGGGAGCCCAGGCCTGGCCTC  
GGGGCAGGGCAGGGCGGCTAGGCCGGCCAGCTCCCCCTTGCCCGCCAGCCAGTGGCCGAACCCCCACTCCCTGC  
CACCGTCACACAGTATTTATTGTTCCCAATGGCTGGGAGGGGGCCCTTCCAGATTGGGGGCCCTGGGGTCCCC  
ACTCCCTGTCCATCCCCAGTTGGGGCTGCGACCGCCAGATTCTCCCTTAAGGAATTGACTTCAGCAGGGGTGGGA  
GGCTCCCAGACCCAGGGCAGTGTGGTGGGAGGGGTGTTCCAAAGAGAAGGCCTGGTCAGCAGAGCCGCCCCGTGT  
CCCCCAGGTGCTGGAGGCAGACTCGAGGGCCGAATTGTTTCTAGTTAGGCCACGCTCCTCTGTTTCAGTCGAAA  
GGTGAACACTCATGCGGCCAGCCATGGGCCCTCTGAGCAACTGTGCAGCACCCCTTCACCCCCAATTAAACCCA  
GAACCA



355/5332  
**FIGURE 317**

AGACTCGGAGCGAGCGAGGGGGCGGGGTGGGGCGGAATCCCGGCCGCCGCGAGGCGGGGGAGGCGGCGGCGCA  
GGGTCGCCCCGGCCGGGCGGGCGGGGTGCGCCCTGGTGGCGGTCCCCGCGCCGAGGCGCCGCTAGGGCGGGCGGG  
GGTCGGGACGCCGGGCTAGGGGCGCGTCATGTGGCCGCTCACGGTCCCGCCGCGCTGCTGCTGCTGTGCTC  
AGGCCTGGCCGGACAGACTCTCTTCCAGAACCAGAAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCTGA  
CGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCTGCG  
GCAACTGATGGAGAAGGTCCAGAACGTCTCCAGTCCATGGAGGTCCTTGAGTTGCGGACGTATCGCGACCTCCA  
GTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCTCGGC  
CAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACTGTTGCCCTGAGCTCGGTCCTGGAGCAGTACAAGGC  
AGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTGAGGAGGA  
GATGGGTGCCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGCCCA  
GAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTCCGGCCATGGGGTCCCGCTTCGGCTC  
CTGGATGACTGACACGATGGCCCCCAGTGCGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCGCCG  
GGTCCTGGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCCGTG  
GGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAAATA  
CCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTACTC  
CTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCAGAA  
CGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTCATGCGGTCTTGGGACACCGGCTACCC  
CAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCACCTGGCTGGGGCCAA  
GGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTCCCA  
CATCTCGATGCTGGATTACAACCCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTACAA  
TGTCACCCGTGTTTCACGTTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTGGGG  
GGCCTCTGGGGGCTGGGGGCCCTTTTCACTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCTCTGTACAGCCC  
TTTCTCCCCGCTTTTTTGTGGGCTTTTGTCTCTGCCTATGTATTTCTGTCTATTTTTTTCAATTTCCCCTCTTC  
TCCTTTATTGATCTCTGCTTTTAATACACCACCTCTTTCTTTCTGCCTTTTTATGGATGTCTTTTCTTTTATG  
GCTCTGGTTCTCCAGTTCTTTCCGTCTCTGCCTCTCTGTCTCTCTCTCTGTCTTCCACCCCTCCCTCCTT  
GCTTCCACCCATTCTCATCCCTCACTCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGTTTC  
TTTTTTTATTTACACTTTTTCTTTCCGTTTGCCGGAATAAACAGGACCTTTGACATTTG

356/5332  
FIGURE 318A

GCGAGTGA CTGCACCGAGCCCGAGAAGTCGCCGCGCCCCGAGCCGCCCGACTGGTTCCCCGCCTTGCCCGTGG  
GCCCCGCGGGGATGGGGAACCGCCGGGACCTGGGCCAGCCGCGGGCCGGTCTCTGCCTGCTCCTGGCCGCGCTGC  
AGCTTCTGCCGGGGACGCAGGCCGATCCTGTGGATGTCTGAAGGCCCTGGGTGTGCAGGGAGGCCAGGCTGGGG  
TCCCCGAGGGGCTGGCTTCTGTCCCCAGAGGACTCCAGAGGGTGACCGGGCATTGAGAATTGGCCAGGCCAGCA  
CGCTCGGCATCCCCACGTGGGAACCTTTCCAGAAGGCCACTTTCCTGAGAACTTCTCCTTGCTGATCACCTTGC  
GGGGACAGCCAGCCAATCAGTCTGTCTGTCTGTCATTATGATGAAAGGGGTGCCCGGCAGTTGGGCCTGGCAC  
TGGGGCCAGCGCTGGGTCTCCTAGGTGACCCCTTCCGCCCCCTCCCCAGCAGGTCAACCTCACAGATGGCAGGT  
GGCACCCTGTGGCCGTGAGCATAGATGGTGAGATGGTGACCTGGTAGCTGACTGTGAAGCTCAGCCCCCTGTTT  
TGGGCCATGGCCCCCGCTTATCAGCATAGCTGGACTCACTGTGCTGGGGACCCAGGACCTTGGGGAAAAGACTT  
TCGAGGGAGACATTCAGGAGCTGCTGATAAGCCCAGATCCTCAGGCTGCCTTCCAGGCTTGTGAGCGGTACCTCC  
CCGACTGTGACAACCTGGCACCAGGCAGCCACAGTGGCTCCCCAGGGTGAACCAGAAACCCCTCGTCTCCGCGGA  
AGGGGAAGGGAAAAGGGAGGAAGAAAGGGCGAGGTGCGAAGGGGAAGGGCAGGAAAAGAACAAGGAAATTTGGA  
CCTCAAGTCCACCTCCTGACTCCGCAGAGAACCAGACCTCCACTGACATCCCCAAGACAGAGACTCCAGCTCCAA  
ATCTGCCTCCGACCCCCACGCCTTTGGTTCGTACCTCCACTGTGACTACTGGACTCAATGCCACGATCCTAGAGA  
GGAGCTTGGACCTGACAGTGAACCGAGCTGGGGACCCCTGGAGACCAAGGCAGCCAGGGAGGATGAAGAAGGAG  
ATGATTCCACCATGGGCCCTGACTTCCGGGCAGCAGAATATCCATCTCGGACTCAGTTCCAGATCTTTCTGGTG  
CTGGAGAGAAAGGAGCAAAAGGAGAGCCCGCAGTGATTGAAAAGGCAGCAGTTTGAGGGACCTCCAGGAGCCCCA  
GGACCCCAAGGGGTGGTTGGCCCCCTCAGGCCCTCCCGGCCCCCAGGATTCCCTGGCGACCCTGGTCCACCGGGC  
CCTGCTGGCCTCCAGGAATCCCCGGCATTGATGGGATCCGAGGGCCACCGGGCACTGTGATCATGATGCCGTTT  
CAGTTTGCAGGCGGCTCCTTTAAAGGCCCCCCAGTCTCATTCCAGCAGGCCCCAGGCTCAGGCAGTTCTGCAGCAG  
ACTCAGCTCTCTATGAAAGGCCCCCTGGTCCAGTGGGGCTCACTGGGCGCCAGGCCCTGTGGGTCTCCCCGGGC  
ATCCAGGTCTGAAAGGAGAGGAGGGAGCAGAAGGGCCACAGGGTCCCCAGGCCCTGCAGGGACCTCATGGACCCC  
CTGGCCGAGTGGGCAAGATGGGCCGCCCTGGAGCAGATGGAGCTCGGGGCTCCAGGGGACACTGGACCTAAGG  
GTGATCGTGGCTTCGATGGCCTCCCTGGGCTGCCTGGTGAGAAGGGCCAAAGGGGTGACTTTGGCCATGTGGGGC  
AACCCGGTCCCCAGGAGAGGATGGTGAGAGGAGCAGAGGGACCTCCAGGGCCCCACTGGCCAGGCTGGGGAGCCG  
GGTCCACGAGGACTGCTTGGCCCCAGAGGCTCTCCTGGCCCCACGGGTGCGCCGGGTGTGACTGGAATTGATGGT  
GCTCCTGGTGCCAAAGGCAATGTGGGTCTCCAGGAGAACCAGGCCCTCCGGGACAGCAGGGAAACCATGGGTCC  
CAGGGACTCCCCGGTCCCCAGGGACTCATTGGCACTCCTGGGGAGAAGGGTCCCCCTGGAAACCCAGGAATTCCA  
GGCCTCCAGGATCCGATGGCCCTCTGGGTACCCAGGACATGAGGGCCCCACGGGAGAGAAAGGGGCTCAGGGT  
CCACCAGGGTCGGCAGGCCCTCCGGGCTATCCTGGACCTCGGGGAGTGAAGGGCACTTCAGGCAACCGGGGCCTC  
CAGGGGGAGAAAGGCGAGAAGGGAGAGGACGGCTTCCAGGCTTCAAGGGCGATGTGGGGCTCAAAGGTGATCAG  
GGGAAACCCGGAGCTCCAGGTCCCCGGGGAGAGGATGGTCTGAGGGGCGAAGGGGCAGGCGGGGCAGGCTGGC  
GAGGAGGGGGCCCCAGGCTCAGCTGGGGAGAAGGGCAAGCTTGGGGTGCCAGGCCTCCAGGTTATCCAGGACGC  
CCTGGACCTAAGATCTATTGGATTTCCCGGTCCCCTGGGACCCATAGGAGAGAAAGGGAAGTCGGGAAAGACAGG  
GCAGCCAGGCCTGGAAGGAGAGCGGGGACCACCAGGTTCCCGTGGAGAGAGGGGGCAACCGGGTGGCACAGGGCA  
ACCAGGCCCAAGGGCGATGTGGGCCAGGATGGAGCCCTGGGATCCCTGGAGAAAAGGGCTCCCTGGTCTGCA  
AGGCCCTCCAGGATTCCCTGGGCCAAAGGGCCCCCTGGTCACCAAGGTAAAGATGGGCGACCAGGGCACCTGG  
ACAGAGAGGAGA ACTGGGCTTCCAAGGTCAGACAGGCCCGCTGGACCAGCTGGTGTCTTAGGCCCTCAGGGAAA  
GACAGGAGAAGTGGGACCTCTAGGTGAAAGGGGGCCTCCAGGCCCCCTGGACCTCCTGGTGAACAAGGTCTTCC  
TGGCCTGGAAGGCAGAGAGGGGGCCAAGGGAACTGGGACCACCAGGACCCCTTGGGAAAGAAGGGCCAGCTGGAC  
TCAGGGGCTTTCCCGGCCCAAGGGGGCCCTGGGGACCCGGGACCTACTGGCTTAAAGGGTGATAAGGGCCCCC  
CAGGGCCCCGTGGGGGCCAATGGCTCCCCTGGTGAGCGCGGTCTTTGGGCCCAGCAGGAGGCATTGGACTTCCTG  
GCCAAAGTGGCAGCGAAGGCCCGCTTGGCCCTGCAGGCAAGAAGGGGTCCCGGAGAACGTGGCCCCCTGGCCCC  
ACTGGCAAAGATGGGATCCAGGGCCCCCTGGGGCCTCTGGGACCCCTGGAGCTGCTGGGCCTTCTGGCGAGGAA  
GGGGACAAGGGATGTGGGTGCCCCCGGACACAAGGGGAGTAAAGGCGATAAAGGAGACGCGGGGCCACCTGGACA  
ACCAGGGATACGGGGTCTGACAGGACACCCAGGTCCCCCGGGAGCAGACGGGGCTCAGGGGCGCCGGGGACCCCC  
AGGCCTCTTTGGGCAGAAAGGAGATGACGGAGTCAGAGGCTTGTGGGGGTGATTGGCCCTCCTGGACTAGGGGC  
TGCCAGGCCCTCCGGGAGAGAAAGGGGAGGTGCGAGACGTCGGGTCCATGGGTCCCCATGGAGCTCCAGGTCTC

357/5332  
**FIGURE 318B**

GGGGTCCCCAAGGCCCCACTGGATCAGAGGGCACTCCAGGGCTGCCTGGAGGAGTTGGTCAGCCAGGCGCCGTGG  
GTGAGAAGGGTGAGCGAGGGGACGCTGGAGACCCAGGGCCTCCAGGAGCCCCAGGCATCCCGGGGCCCAAGGGAG  
ACATTGGTGAAAAGGGGGACTCAGGCCCATCTGGAGCTGCTGGACCCCCAGGCAAGAAAGGTCCCCCTGGAGAGG  
ATGGAGCCAAAGGGGAGCGTGGGCCCCACGGGGCTGCCCGGAGATCTAGGGCCCCCAGGAGACCCTGGAGTTTCAG  
GCATAGATGGTTCCCCAGGGGAGAAGGGAGACCCTGGTGATGTTGGGGGACCGGGTCCGCCTGGAGCTTCTGGGG  
AGCCCCGCGCCCCCGGGCCCCCGGCAAGAGGGGTCTTCAGGCCACATGGGTGCGAGAAGGCAGAGAAGGGGAGA  
AAGGTGCCAAGGGGGAGCCAGGTCTTGATGGGCCCCCAGGGAGGACGGGTCCAATGGGGGCTAGAGGGCCCCCTG  
GACGTGTGGGGCCTGAGGGTCTTCGAGGGATCCCTGGCCCTGTGGGTGAACCAGGCCTCCTGGGAGCCCCCTGGAC  
AGATGGGCCCCCTCCTGGCCCCCTGGGGCCCTCTGGCCTCCAGGGCTGAAGGGAGACACTGGCCCCAAGGGGGAAA  
AGGGCCACATTGGATTGATCGGTCTCATTGGCCCCCGGGAGAAGCTGGTGAGAAAGGAGATCAGGGGTTGCCAG  
GCGTGACAGGACCCCCCTGGTCCCAAGGGAGACCCTGGTCCCCCTGGTCCCATTGGCTCTCTGGGCCACCCCTGGGC  
CCCCAGGTGTGGCGGGCCCTCTAGGACAGAAAGGCTCAAAGGGTCTCCGGGGTCCATGGGGCCCCCGTGGAGACA  
CTGGACCTGCAGGCCCACCAGGCCCCCGGGTGCCCCCTGCCGAGCTGCATGGGCTGCGCAGGCGCCGGCGCTTCG  
TCCCAGTCCCGCTTCCAGTCGTGGAGGGCGGCCTGGAGGAGGTGCTGGCCTCGCTCACATCGCTGAGCTTGGAGC  
TGGAGCAGCTGCGGCGTCTCCCCGGCACTGCGGAGCGCCCCGGGCCTCGTGTGCCACGAGCTGCACCGCAACCACC  
CGCACCTGCCTGATGGGGAATACTGGATTGACCCCAACCAGGGCTGCGCGCGGGACTCGTTCAGGGTTTTTTTGA  
ACTTCACGGCGGGAGGAGAGACCTGCCTCTATCCCGACAAGAAGTTTGAGATCGTGAAATTGGCCTCCTGGTCCA  
AGGAAAAGCCTGGAGGCTGGTATAGCACATTCCGTCGAGGGAAGAAGTTCTCCTACGTGGACGCCGACGGGTCCC  
CAGTGAATGTGCTGCAGCTGAACTTCTTGAACTGCTGAGTGCCACAGCTCGCCAGAACTTCACCTACTCCTGCC  
AGAATGCAGCTGCCTGGCTGGACGAAGCCACGGGTGACTACAGCCACTCCGCCCCGCTTCCTTGGCACCAATGGAG  
AGGAGCTGTCTTTCAACCAGACGACAGCAGCCACTGTGAGCGTCCCCAGGATGGCTGCCGGCTCCGGAAAGGAC  
AGACGAAGACCCTTTTTCAATTGAGCTCTTCTCGAGCGGGATTTCTGCCCCCTGTGGGATGTGGCGGCCACTGACT  
TTGGCCAGACGAACCAAAAGTTTGGGTTTGAAGTGGGCCCCGTCTGCTTCAGCAGCTGAGAGTGTCCGGGGTGGG  
AGGGACCATGAGGGAGCCCCAGAATGGGGTGCAATTTGGTGCTGAGGCTTTGAAGCCACCGTATTTTTTCGTTACCT  
GTGACTATGGAGCCAATGGGATGTGACTTCGCTCATCACGGACAGTCATTCTCTCTCTTCCAGGGTGCTGGGG  
GCTGGGGTTCCCTGGCCCAAGGGTCCAGCCTCCTCTCACCCCATTCAGGTGGCATACTGCAGTCTGGCTCTTTC  
TCCCCTCCCTCCCCACCCAAGCCTCACCTCCCCACCCCTTGAACCCCATGCAATGAGCTTCTAACTCAGAGCTG  
ATGAACAAAAGCCCCCCCCACCCCAATGCCTGCCTCCTCACTCCTCCGTGCTGCCCTTCACACCTTTTGGTGCT  
ACCCCTCCCCAGAGTTAAGCACTGGATGTCTCCTGATCCCAGGCTGGGACCCCTACCCCCACCCCTTTGATCCT  
TTCTACTTCCACGGTGAAAGGACTGAGGTGGGACTACAGAGGGAAGAGGGACTTCCCTTGACTGGGTTGTGTTTC  
TTTTCTGCTCAGCCCAGCTCTGCAAATCCCTCCCCCTGCCCCCACCTCCCCAGGCTCACCTTGCCATGCCA  
GGTGGTTTGGGGACCAAGATGTTGGGGGGGTGAATCAGGATCCTAATGGTGCTGCCCTATTTATACCTGGGTCTG  
TATTAAAAGGGAAAGTCCCCCTGTTGTAGATTTTCATCTGCTTCTCTCTTAGGGAAGGCTGGGATATGATGAGAG  
ATTCCAGCCCAAGCCTGGCCCCCACCGCCAGGCCATAGGGCATAATTTGCATCTCAAATCTGAGAATAAACTGA  
TGAAGTGTG

358/5332  
**FIGURE 319**

CCCTGCGCGGCTGCTGGACCGACGGGCGCACCCAGGTAGGGGGGCGGCTGAGCCGCGCAGTGCGGACCCTCGCGG  
GGAAGTGCGCCGCCGCCACCATGTCTCAGGAAGGTGTGGAGCTGGAGAAGAGCGTCCGGCGCCTCCGGGAGAAGT  
TTCATGGGAAGGTATCCTCCAAGAAGGCGGGGCTCTGATGAGGAAATTCGGCAGCGACCACACGGGAGTGGGGC  
GCTCCATCGTGTACGGGGTAAAGCAAAAAGATGGCCAAGAACTAAGTAACGATCTGGATGCCAGGATCCACCAG  
AAGATATGAAGCAGGACCGGGACATTTCAGGCAGTGGCGACCTCCCTCCTGCCACTGACAGAAGCCAACCTACGCA  
TGTTTCAACGTGCCCAGGACGACCTTATCCCTGCTGTGGACCGGCAGTTTGCCTGCTCCTCCTGCGACCACGTCT  
GGTGGCGCCGCGTGCCCCAGCGGAAGGAGGTATCCCGGTGCCGGAATGCCGGAAGCGCTACGAGCCAGTGCCAG  
CTGACAAGATGTGGGGCCTGGCTGAGTTCCACTGCCCAGAGTGTCCGGCACAACCTTCCGGGGCTGGGCACAGATGG  
GGTCCCCGTCCCCCTGCTACGGGTGCGGCTTCCCCGTGTATCCAACACGGATCCTCCCCCGCGCTGGGACCGGG  
ACCCGGATCGCCCGCAGCACCCACACTCACTCCTGCTCAGCTGCCGACTGCTACAACCGGCGAGAGCCCCACGTGC  
CTGGGACATCCTGTGCTCACCCCAAGAGCCGGAAGCAGAACCACCTGCCCAAAGTGCTCCACCCAGCAACCCCTC  
ACATTAGCAGTGGCTCCACTGTGGCCACCTGCTTGAGCCAGGGTGGCCTCCTGGAAGACCTGGACAACCTCATCC  
TGGAGGACCTGAAGGAGGAGGAGGAGGAAGAGGAGGAGGTGGAGGACGAGGAGGGCGGGCCAGGGAGTGACCCC  
TGCCAGGTGCAGATACAAACCAGACACGGTCTGTGGCTACTTTGTGTTATTATAAGATATGAGCTCAAACCGAGA  
TATGAATGACCTTGGGGAGCCATCTGAGGCCAAGATATTGACGGGGGGGATTCTTGGGTCCCATTTTCAGCGCCC  
AGGGTCACAGATCCACAGTGGGAAGTTCTGTGGGACACATTGGCACTGAGCCACAAAGAAGGTGTGGCCAGAACA  
ACTTGGGCTCCTGCTGACCAATGTCTCTAGGGCCTAGGGGACAGAGGAACACAGAGTCACAGCTTCAGGGGCCG  
AATGAGCATGGCGGCCTTCTTGAGAGAATATGCCCCACCACGAACTCAGCCCAGTAGACACCATCCTGGTAGCG  
GCTTCGGTAGTGGCCGCCGTGGTGCCACACACCGTTGAGGTTGGAGTGGGCACAGGCATGGTACCACCAGCCTCC  
CCGCTGGTACAGGGCACAGTTACCTGAGGGGAGAGAGAGAGTCCATGTCTCTCACCAGAATAAAAGCCTCTACC  
TGCACCTCACAGTGCAAGGCTTTTGCCAGGCATCCCCTGGCCCCCTCCCATTTCTTATTGAATACAAGCCCTGATCT  
TCCATCTCCTCAGCAAAAAAATAGGAGCCCTGGCCCCCAACTTTCTTCAGAGTAATAGCCTTAATTCCTTCCCT  
ATCTCCTTACCAAAGTACAAGTCACATCTTTCCACCTTTTCTGCAAACTAGGAGTCTACCGTTTATTCTTTAT  
CAAAGAAAAGTATCTACTTCTTTCTAGAATAAGAGTACTAGCTCTCACCTCTGCCCTTTACTTGAACAGGAGT  
CTTGATTCTTTTTTTGCCTCATCAGAGAAGGAATCTGGACTCCCCATCCCCCACCAGGATAAAAGTCCTGACCT  
TTGTTCTCTTGACGGAATAAAAGCTTGCTTATCCTT

359/5332  
**FIGURE 320**

TCAAGCGATCCTCCCTACTTAGCCTCCCAAAACACTGAGATTGCAGCCATGAGCCACTGCGCCTGGCCAGGTTTG  
ATTTCTGTAGTAGCTGTTCAATTGTGGGTCAAGGGTCAGGTTCTGGGGTAAGGAGGTATTGGGCTTCTCACATTT  
AAGGTCAGAAGTCCAGTCTGGGTGAGGGGTTGGGATCAGAGATCAAGGCTGAGCTCTGAGTTTGGAGGTCAGGG  
ATTGGACTCTCAGTGATTGAAATCCTTAGGTCAGAGGTACAGTCACTGAGGATAGGAGTCAGGAGTGGAGTTCGG  
GACAGTCAAAGTCGAGGTTAAGTTTTAGGTCATCACCTCCTTCCGCTGGGGCACGCGGCGCCACCAGACGTGGTC  
GCAGGAGGAGCAGGCAAACCTGCCGGTCCACAGCAGGGATAAGGTCGTCCTGGGCACGTTGAAACATGCGTAGGTT  
GGCTTCTGTGTCAGTGGCAGGAGGGAGGTCGCCACTGCCGTGTGGAATGGGGCAGGTGGGGATGAGGTGGGGGGGTGT  
CACCCCTTCTGCACCAACATAAGCATCAGCCCTCCTCTCCCTACAGACGAGTCCTCTTCTGCCCCAGTGAATAT  
CTCCCTCCTGCCCTAATGGACATCCTTCTGTGCCTGCAGATGTCCCTCCCAACTCCCCCATCCCAAGCCCTA  
GCCACCAACTCACCTGAATGTCCCGGTCTGCTTCATATCTTCTGGTGGATCCTGGGTGGAGATAGCAGGGGCAG  
AAACTGGGGATGGGGCTCAGGCCTCTTTCCACCCGTTTGCTGGGGGAGGCCCCCGGCCCAATGAGTAGGGTGCC  
CCTAACTCGCCAGAAGCTCACAGAGCACCACTCACTTATTGAGAGCCAGGTGTGTGGCCTCAGTTGTCCTCATAG  
CAGCCCTGAGAGGTGGGCACACCTGTTACCTTATTGCTCAGATGGGGAAACTGAGGCTTAGGGGAGGGCTTGCCT  
GAGTGAGGCTAGCCTGACCCCCATACTCACTTCCTGCCTGCAAATGCCACATGCTTGTTGATGTTGTGACATATC  
GCCCCCTTTGAGGCCACGTTGTGCTCGGCTAAGTGGGAGAGAGATGTGGGTTCAAATCCCAGCTGTATCACTTCCA  
GCTGTGGGGACTTGGGCAAGCCACTCCCTGCCCCCTGGGTTCCCACTGACAGGCATGTTAGAGCCCAGGCTCTGA  
CTCCAGGTGGCCAGGGTTCAAATCGCAGCTGCCCCCTGCTTGCTGGCAAGTGACTTCGGCCTCAGTTTCTTTGTCT  
GTGAAATGGGGATAAATAATAGGACCTGTCTCCTGGGGTCACTGCAGTGATGAAATAAATAAATTCCTGGAATCT  
TG

360/5332  
**FIGURE 321**

ATTCTGGGAAATGCTAAATATTTATAGTTTGGGCTCCTGGGCCCAGCATCCCAGCTCCACTCCCAGGCTCTGGGGG  
CTGGGGAGTGGTTACCAAGCCTCCTCTCTCCTTCTGTCCCCTGCCCCTCTCCCGTCTCTAGCTCAGAGGCCCA  
CTGGACCCTCGGCTCTTCCTTGGACTTCTTGTGTGTTCTGTGAGCTTCGCTGGATTACAGGTCTTGGGCATCAGA  
GGTCCGCCCGCATGGGGAAGCCCTGGCTGCGTGCGCTACAGCTGCTGCTCCTGCTGGGCGCGTCTGTGGGCGCGG  
CGGGCGCCCCGCGCTGCACCTACACCTTCGTGCTGCCCCCGCAGAAGTTCACGGGCGCTGTGTGCTGGAGCGGCC  
CCGCATCCACGCGGGCGACGCCGAGGCCGCAACGCCAGCGAGCTGGCGGCGCTGCGCATGCGCGTCGGCCGCC  
ACGAGGAGCTGTTACGCGAGCTGCAGAGGCTGGCGGCGGCCGACGGCGCCGTGGCCGGCGAGGTGCGCGCGCTGC  
GCAAGGAGAGCCGCGGCCTGAGCGCGCGCCTGGGCCAGTTGCGCGCGCAGCTGCAGCACGAGGCGGGGCCCCGGG  
CGGGCCCCGGGGCGGATCTGGGGGCGGAGCCTGCCGCGGCGCTGGCGCTGCTCGGGGAGCGCGTGTCAACGCGT  
CCGCCGAGGCTCAGCGCGCAGCCGCCCGTTCCACCAGCTGGACGTCAAGTTCGCGAGCTGGCGCAGCTCGTCA  
CCCAGCAGAGCAGTCTCATCGCCCGCCTGGAGCGCCTGTGCCCGGGAGGCGCGGGCGGGCAGCAGCAGGTCCCTGC  
CGCCACCCCCACTGGTGCTGTGGTTCCGGTCCGTCTTGTGGGTAGCACCAAGTACACCAAGTAGGATGCTGGACC  
CAGCCCCAGAGCCCCAGAGAGACCAGACCCAGAGACAGCAGGAGCCCATGGCTTCTCCCATGCCTGCAGGTCACC  
CTGCGGTCCCCACCAAGCCTGTGGGCCCCGTGGCAGGATTGTGCAGAGGCCCGCCAGGCAGGCCATGAACAGAGTG  
GAGTGTATGAACTGCGAGTGGGCGCTCACGTAGTGTGAGTATGGTGTGAGCAGCAACTGGAGGGTGGAGGCTGGA  
CTGTGATCCAGCGGAGGCAAGATGGTTCACTCAACTTCTTCACTACCTGGCAGCACTATAAGGCGGGCTTTGGGC  
GGCCAGACGGAGAATACTGGCTGGGCCTTGAACCCGTGTATCAGCTGACCAGCCGTGGGGACCATGAGCTGCTGG  
TTCTCCTGGAGGACTGGGGGGGCGGTGGAGCACGTGCCCACTATGATGGCTTCTCCCTGGAACCCGAGAGCGACC  
ACTACCGCTGCGGCTTGGCCAGTACCATGGTGTATGCTGGAGACTCTCTTCTGTCACAATGACAAGCCCTTCA  
GCACCGTGGATAGGGACCGAGACTCCTATTCTGGTAACTGTGCCCTGTACCAGCGGGGAGGCTGGTGGTACCATG  
CCTGTGCCCACTCCAACCTCAACGGTGTGTGGCACCACGGCGGCCACTACCGAAGCCGCTACCAGGATGGTGTCT  
ACTGGGCTGAGTTTCGTGGTGGGGCATATTCTCTCAGGAAGGCCGCCATGCTCATTCGGCCCCCTGAAGCTGTGAC  
TCTGTGTTTCTCTGTCCCCCTAGGCCCTAGAGGACATTGGTCAGCAGGAGCCCCAAGTTGTTCTGGCCACACCTTCT  
TTGTGGCTCAGTGCCAATGTGTCCACAGAACTTCCCACTGTGGATCTGTGACCCTGGGCGCTGAAAATGGGACC  
CAGGAATCCCCCGTCAATATCTTGGCCTCAGATGGCTCCCCAAGGTCATTCATATCTCGGTTTGAGCTCATAT  
CTTATAATAACACAAAGTAGCC

361/5332  
**FIGURE 322**

AGGAGGCCTCGTGGAGGACACAGCAGCATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCAG  
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTTCGTGTTACGCGAGGCTGCACGGGTCGC  
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCA<sup>g</sup>GTTCGTAAG  
AAGA<sup>a</sup>ACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCTCGGGGTCACACACTTTCTGATCCTGAGCA<sup>a</sup>AAACA  
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCAGGAGGCCCCACCTTGACCTTCCAGGTCAAGAAGTACTCG  
CTGGTGCCTGATGTGGTCTCCTCACTGCGCCGGCACC<sup>g</sup>CGCATGCACGAGCAGCAGTTTGCCCACCCACCCCTCCTG  
GTACTCAACAGCTTTGGCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCCTCC  
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTAGA<sup>a</sup>CCCCGACTCCCAGGAG  
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG  
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTCGGAGAGCGAG  
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTGCTGGCCGTGGCAACATGCGGGCCCAG  
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG  
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG  
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCAGCAGGCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG  
GCCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTCGGGGGTAGTGATGAAGAGGCCTCTGGGATC  
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC  
CAGGCGGTGGGCGAGGCGCCCACTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG  
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC  
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC  
CGCCCAGGGAAGAGAGTGGCCTTGAGCCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC  
CGAGATGTGGCCCTCGGTTTCCTTTCTATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT  
GGC

362/5332  
**FIGURE 323**

GAACCTCAGGAGGGTTGTGGCACAATGAGGAAGGAAACGTGGGTGGAAAGGCACGCTGGCCTGCTCTGCTGGCTG  
GGCCAGTAACTGGGGATGGGGCTGGGGCAGGGCCCACTAAGCCACTGGTGACTGGGGGAGGGGCTGGGGAACCTGG  
GTAGCAGACACAGGCTGAGGATCGGCACGGGAGCATGGCAGCCAACGTCTCGGAGGTGCCAAGTCCTGCCCTGCC  
AACTTCTTGGCAGCTGCCGACGACAAACTCAGTGGGTTCAGGGGGACTTCCTGTGGCCCATACTGGTGGTTGAG  
TTCCTGGTGGCCGTGGCCAGCAATGGCCTGGCCCTGTACCGCTTCAGCATCCGGAAGCAGCGCCCATGGCACCCG  
GCCGTGGTCTTCTCTGTCCAGCTGGCAGTCAGCGACCTGCTCTGCGCCCTGACGCTGCCCCCGCTGGCCGCCTAC  
CTCTATCCCCCAAGCACTGGCGCTATGGGGAGGCCGCGTGCCGCTGGAGCGCTTCCTCTTCACCTGCAACCTG  
CTGGGCAGCGTCATCTTCATCACCTGCATCAGCCTCAACCGCTACCTGGGCATCGTGCACCCCTTCTTCGCCCGA  
AGCCACCTGCGACCCAAGCAGCCTGGGCCGTGAGCGCTGCCGGCTGGGTCTGGCCGCCCTGCTGGCCATGCCC  
ACACTCAGCTTCTCCACCTGAAGAGGCCGAGCAGGGGGCGGGCAACTGCAGCGTGGCCAGGCCCGAGGCCCTGC  
ATCAAGTGTCTGGGGACAGCAGACCACGGGCTGGCGGCCCTACAGAGCGTATAGCCTGGTGCTGGCGGGGTGGGC  
TGCGGCCTGCCGCTGCTGCTCACGCTGGCAGCCTACGGCGCCCTCGGGCGGGCCGTGCTACGCAGCCCAGGCATG  
ACTGTGGCCGAGAAGCTGCGTGTGGCAGCGTTGGTGGCCAGTGGTGTGGCCCTCTACGCCAGCTCCTATGTGCC  
TACCACATCATGCGGGTGTCTAACGTGGATGCTCGGCGGCGCTGGAGCACCCGCTGCCCGAGCTTTGCAGACATA  
GCCCAGGCCACAGCAGCCCTGGAGCTGGGGCCCTACGTGGGCTACCAGGTGATGCGGGGCCTCATGCCCCCTGGCC  
TTCTGTGTCCACCCTCTACTCTACATGGCCGAGTGCCAGCCTGGGCTGCTGCTGCCGACACTGCCCCGGCTAC  
AGGGACAGCTGGAACCCAGAGGACGCCAAGAGCAC'TGGCCAAGCCCTGCCCTCAATGCCACAGCCGCCCTAAA  
CCGTCAGAGCCCCAGTCCCCTGAGCTGAGCCATGA



363/5332  
**FIGURE 324**

CTTTTTGCGATGCCTACTGGAGACTTTGATTTCGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC  
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA  
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA  
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA  
AGGAGGAAGAACTGGAAGAAGTTCGGGAACTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCACTGTC  
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCTATGAAC  
AAACTCAAGGGCCAGAAGATCGTGTCTGCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCTACAAG  
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG  
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC  
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTCACCAACTTGTCA  
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCGGCCTTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG  
GACAAGACCACTGGCCAATCCAAGGGCTTTGCCTTCATCAGCTTCCACCGCCGCGAGGATGCTGCGCGTGCCATT  
GCCGGGTGTCCGGCTTTGGCTACGACCACCTCATCCTCAACGTCGAGTGGGCCAAGCCGTCCACCAACTAAGCC  
AGCTGCCACTGTGTACTCGGTCCGGGACCCTTGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA  
TAAAGCAGCTCCACTCTC

364/5332  
**FIGURE 325A**

TCCGCGTGGGGGGGTGTGTGCCCGCCTTGCGCATGCGTGTTCCTGGGCATGGCCGGCTCCGTTCCATCCTTCT  
GCACAGGGTATCGCCTCTCTCCGTTTGGTACATCCCCTCCTCCCCACGCCCGGACTGGGGTGGTAGACGCCGCC  
TCCGCTCATCGCCCTCCCCATCGGTTTCCGCGCGAAAAGCCGGGGCGCCTGCGCTGCCGCCGCCGCGTCTGCTG  
AAGCCTCCGAGATGCGCGCGTACCGCCCCAGCCCGGGTGCCACACTGGCCGTCCCGGCCATCTCGCTGCCCG  
ACGATGTCCGAGGCGGCTCAAAGATTGGAAGAGACAGCTTAACAGAAAAGGAATGTGTGAAGGAGAAATTGA  
ATCTCTTGACGAATTTCTGCAAACAGAAATAAAGAATCAGTTATGTGACTTGGAACCAAATTACGTAAAGAAG  
AATTATCCGAGGAGGGCTACCTGGCTAAAGTCAAATCCCTTTTAAATAAAGATTGTCTTGGAGAACGGTGCTC  
ATGCTTACAACCGGGAAGTGAATGGACGTCTAGAAAACGGGAACCAAGCAAGAAGTGAAGCCCGTAGAGTGGGAA  
TGGCAGATGCCAACAGCCCCCCCCAAACCCCTTTCCAAACCTCGCACGCCAGGAGGAGCAAGTCCGATGGAGAGG  
CTAAGCCTGAACCTTCACCTAGCCCCAGGATTACAAGGAAAAGCACCAGGCAAACCACCATCACATCTCATTTTG  
CAAAGGGCCCTGCCAAACGGAAACCTCAGGAAGAGTCTGAAAGAGCCAAATCGGATGAGTCCATCAAGGAAGAAG  
ACAAAGACCAGGATGAGAAGAGACGTAGAGTTACATCCAGAGAACGAGTTGCTAGACCGCTTCCTGCAGAAGAAG  
CTGAAAGAGCAAAATCAGGAACGCGCACTGAAAAGGAAGAAGAAAGAGATGAAAAAGAAGAAAAGAGACTCCGAA  
GTCAAACCAAGAACCAACACCCAAACAGAACTGAAGGAGGAGCCGGACAGAGAAGCCAGGGCAGGCGTGCAAG  
CTGACGAGGACGAAGATGGAGACGAGAAAGATGAGAAGAAGCACAGAAGTCAACCCAAAGATCTAGCTGCCAAAC  
GGAGGCCCGAAGAAAAAGAACCTGAAAAAGTAAATCCACAGATTTCTGATGAAAAAGACGAGGATGAAAAGGAGG  
AGAAGAGACGCAAAACGACCCCCAAAGAACCAACGGAGAAAAAATGGCTCGCGCCAAAACAGTCATGAACTCCA  
AGACCCACCTTCCCAAGTGCAATTCAGTGCGGGCAGTACCTGGACGACCCTGACCTCAAATATGGGCAGCACCCAC  
CAGACGCGGTGGATGAGCCACAGATGCTGACAAATGAGAAGCTGTCTCTTTGATGCCAACGAGTCTGGCTTTG  
AGAGTTATGAGGCGCTTCCCCAGCACAACTGACCTGCTTCAGTGTGTACTGTAAGCACGGTCACCTGTGTCCCA  
TCGACACCGGCCTCATCGAGAAGAATATCGAACTCTTCTTTTCTGGTTTCAGCAAAACCAATCTATGATGATGACC  
CATCTCTTGAAGGTGGTGTAAATGGCAAAATCTTGGCCCCATAATGAATGGTGGATCACTGGCTTTGATGGAG  
GTGAAAAGGCCCTCATCGGCTTACGACCTCATTTGCCGAATACATTCTGATGGATCCCAGTCCCGAGTATGCGC  
CCATATTTGGGCTGATGCAGGAGAAGATCTACATCAGCAAGATTGTGGTGGAGTTCTTGCAGAGCAATTCGACT  
CGACCTATGAGGACCTGATCAACAAGATCGAGACCACGGTTCTCTCTTCTGGCCTCAACTTGAACCGCTTCACAG  
AGGACTCCCTCCTGCGACACGCGCAGTTTGTGGTGGAGCAGGTGGAGAGTTATGACGAGGCCGGGGACAGTGATG  
AGCAGCCCATCTTCTGACACCTGCAATGCGGGACCTGATCAAGCTGGCTGGGGTCACGCTGGGACAGAGGCGAG  
CCCAGGCGAGGCGGCAGACCATCAGGCATTCTACCAGGGAGAAGGACAGGGGACCCACGAAAGCCACCACCACCA  
AGCTGGTCTACCAGATCTTCGATACTTTCTTCGAGAGCAAATTGAAAAGGATGACAGAGAAGACAAGGAGAACG  
CCTTTAAGCGCCGGCGATGTGGCGTCTGTGAGGTGTGTGTCAGCAGCCTGAGTGTGGGAAATGTAAAGCCTGCAAGG  
ACATGGTTAAATTTGGTGGCAGTGGACGGAGCAAGCAGGCTTGCCAAGAGCGGAGGTGTCCCAATATGGCCATGA  
AGGAGGCAGATGACGATGAGGAAGTCGATGATAACATCCAGAGATGCCGTCACCCAAAAAATGCACCAGGGGA  
AGAAGAAGAAACAGAACAAAGATCGCATCTCTTGGGTGCGGAGAAGCCGTCAAGACTGATGGGAAGAAGAGTTACT  
ATAAGAAGGTGTGATTGATGCGGAAACCCCTGGAAGTGGGGGACTGTGTCTCTGTTATTCCAGATGATTCCTCAA  
AACCGCTGTATCTAGCAAGGTCACGGCGCTGTGGGAGGACAGCAGCAACGGGCAGATGTTTACGCCCCACTGGT  
TCTGCGCTGGGACAGACACAGTCTCGGGGCCACGTGCGACCCCTCTGGAGCTGTTCTTGGTGGATGAATGTGAGG  
ACATGCAGCTTTCATATATCCACAGCAAAGTGAAAGTCATCTACAAAGCCCCCTCCGAAAACCTGGGCCATGGAGG  
GAGGCATGGATCCCGAGTCCCTGCTGGAGGGGGACGACGGGAAGACCTACTTCTACCAGCTGTGGTATGATCAAG  
ACTACGCGAGATTTCGAGTCCCCCTCCAAAACCCAGCCAACAGAGGACAACAAGTTCAAATTCTGTGTGAGCTGTG  
CCCGTCTGGCTGAGATGAGGCAAAAAGAAATCCCCAGGGTCTTGAGCAGCTCGAGGACCTGGATAGCCGGGTCC  
TCTACTACTCAGCCACCAAGAACGGCATCCTGTACCGAGTTGGTGATGGTGTGTACCTGCCCCCTGAGGCCTTCA  
CGTTCAACATCAAGCTGTCCAGTCCCGTGAAACGCCCACGGAAGGAGCCCGTGGATGAGGACCTGTACCCAGAGC  
ACTACCGGAAATACTCCGACTACATCAAAGGCAGCAACCTGGATGCCCCCTGAGCCCTACCGAATTGGCCGGATCA  
AAGAGATCTTCTGTCCCAAGAAGAGCAACGGCAGGCCCAATGAGACTGACATCAAAATCCGGGTCAACAAGTTCT  
ACAGGCCTGAGAACACCCACAAGTCCACTCCAGCGAGCTACCACGAGACATCAACCTGCTCTACTGGAGCGACG  
AGGAGGCCGTGGTGGACTTCAAGGCTGTGAGGGCCGCTGCACCGTGGAGTATGGGGAGGACCTGCCCGAGTGCG  
TCCAGGTGTACTCCATGGGCGGCCCAACCGCTTCTACTTCTCGAGGCCTATAATGCAAAGAGCAAAAGCTTTG  
AAGATCCTCCCAACCATGCCCGTAGCCCTGGAACAAAGGAAGGGCAAGGGAAAAGGGAAGGGCAAGCCCAAGT

365/5332  
**FIGURE 325B**

CCCAAGCCTGTGAGCCGAGCGAGCCAGAGATAGAGATCAAGCTGCCCAAGCTGCGGACCCTGGATGTGTTTTCTG  
GCTGCGGGGGGTTGTCGGAGGGATTCCACCAAGCAGGCATCTCTGACACGCTGTGGGGCCATCGAGATGTGGGACC  
CTGCGGGCCCAGGCGTTCCGGCTGAACAACCCCGGCTCCACAGTGTTACAGAGGACTGCAACATCCTGCTGAAGC  
TGGTCATGGCTGGGGAGACCACCAACTCCCGCGGCCAGCGGCTGCCCCAGAAGGGAGACGTGGAGATGCTGTGCG  
GCGGGCCGCCCTGCCAGGGCTTCAGCGGCATGAACCGCTTCAATTCGCGCACCTACTCCAAGTTCAAAAACCTCTC  
TGGTGGTTTTCTTCTCAGCTACTGCGACTACTACCGGCCCCGGTTCTTCTCCTGGAGAATGTCAGGAACTTTG  
TCTCCTTCAAGCGCTCCATGGTCTGAAGCTCACCTCCGCTGCCTGGTCCGCATGGGCTATCAGTGCACCTTCG  
GCGTGCTGCAGGCCGGTCAGTACGGCGTGGCCAGACTAGGAGGCGGGCCATCATCCTGGCCGCGGGCCCCTGGAG  
AGAAGCTCCCTCTGTTCCTCGGAGCCACTGCACGTGTTTGCTCCCCGGGCGCTGCCAGCTGAGCGTGGTGGTGGATG  
ACAAGAAGTTTGTGAGCAACATAACCAGGTTGAGCTCGGGTCCTTTCCGGACCATCACGGTGCGAGACACGATGT  
CCGACCTGCCGGAGGTGCGGAATGGAGCCTCGGCACTGGAGATCTCCTACAACGGGGAGCCTCAGTCTTGGTTCC  
AGAGGCAGCTCCGGGGCGCACAGTACCAGCCCATCCTCAGGGACCACATCTGTAAGGACATGAGTGCATTGGTGG  
CTGCCCCGATGCGGCACATCCCCTTGGCCCCAGGGTCAGACTGGCGCGATCTGCCCCAACATCGAGGTGCGGCTCT  
CAGACGGCACCATGGCCAGGAAGCTGCGGTATACCCACCATGACAGGAAGAACGGCCGCGAGCAGCTCTGGGGCCC  
TCCGTGGGGTCTGCTCCTGCGTGGAAGCCGGCAAAGCCTGCGACCCCGCAGCCAGGCAGTTCAACACCCTCATCC  
CCTGGTGCCTGCCCCACACCGGGAACCGGCACAACCACTGGGCTGGCCTCTATGGAAGGCTCGAGTGGGACGGCT  
TCTTCAGCACAACCGTCACCAACCCCGAGCCCATGGGCAAGCAGGGCCGCGTGCTCCACCCAGAGCAGCACCGTG  
TGGTGAGCGTGCGGGAGTGTGCCCGCTCCCAGGGCTTCCCTGACACCTACCGGCTCTTCGGCAACATCCTGGACA  
AGCACCGGCAGGTGGGCAATGCCGTGCCACCGCCCCCTGGCCAAAGCCATTGGCTTGGAGATCAAGCTTTGTATGT  
TGGCCAAAGCCCGAGAGAGTGCCTCAGCTAAAATAAAGGAGGAGGAAGCTGCTAAGGACTAGTTCTGCCCTCCCG  
TCACCCCTGTTTCTGGCACCAGGAATCCCCAACATGCACTGATGTTGTGTTTTTAACATGTCAATCTGTCCGTTT  
ACATGTGTGGTACATGGTGTGTTGTGGCCTTGGCTGACATGAAGCTGTTGTGTGAGGTTTCGCTTATCAACTAATGA  
TTTAGTGATCAAATTGTGCAGTACTTTGTGCATTCTGGATTTTAAAAGTTTTTTATTATGCATTATATCAAATCT  
ACCACTGTATGAGTGGAATTAAGACTTTATGTAGTTTTTATATGTTGTAATATTTCTTCAAATAAATCTCTCCT  
ATAAACC

366/5332  
**FIGURE 326**

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG  
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTCCAGCGCGGAGT  
CGCGGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC  
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGTCAGTTCGTCCGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCGG  
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG  
TCTCCCGAGACCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTGCA  
GTCCTTGGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTGCCACCGCGCCAG  
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG  
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG  
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT  
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC  
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT  
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT  
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTCGC  
CTTCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA  
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT  
TCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGAGCCTCAGGCCACGCCACCCCTTCGAGGAAGGTGTCACCTG  
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA  
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTG

367/5332  
**FIGURE 327**

GCGCCCCAGTCGACGCTGAGCTCCTCTGCTACTCAGAGTTGCAACCTCAGCCTCGCTATGGCTCCCAGCAGCCCC  
CGGCCCCGCGCTGCCCGCACTCCTGGTCCTGCTCGGGGCTCTGTTCCAGGACCTGGCAATGCCAGACATCTGTG  
TCCCCCTCAAAAGTCATCCTGCCCCGGGGAGGCTCCGTGCTGGTGACATGCAGCACCTCCTGTGACCAGCCCCAAG  
TTGTTGGGCATAGAGAC~~3~~CCGTTGCCTAAAAAGGAGTTGCTCCTGCCTGGGAACAACCGGAAGGTGTATGAACTG  
AGCAATGTGCAAGAAGATAGCCAACCAATGTGCTATTCAAACCTGCCCTGATGGGCAGTCAACAGCTAAAAACCTTC  
CTCACCGTGTACTGGACTCCAGAACGGGTGGAACCTGGCACCCCTCCCCCTTGGCAGCCAGTGGGCAAGAACCTT  
ACCCTACGCTGCCAGGTGGAGGGTGGGGCACCCCGGGCCAACCTCACCGTGGTGCTGCTCCGTGGGGAGAAGGAG  
CTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCTGAGGTACAGACCACGGTGCTGGTGAGGAGAGATCACCATGGA  
GCCAATTTCTCGTGCCGCACTGAACTGGACCTGCGGGCCCCAAGGGCTGGAGCTGTTTGAGAACACCTCGGCCCCC  
TACCAGCTCCAGACCTTTGTCTGCCAGCGACTCCCCCACAACCTTGTACAGCCCCCGGGTCTTAGAGGTGGACACG  
CAGGGGACCGTGGTCTGTTCCCTGGACGGGCTGTTCCCACTCTCGGAGGCCAGGTCCACCTGGCACTGGGGGAC  
CAGAGGTTGAACCCACAGTCACCTATGGCAACGACTCCTTCTCGGCCAAGGCCTCAGTCAGTGTGACCGCAGAG  
GACGAGGGCACCCAGCGGTGACGTGTGAGTAATACTGGGGAACAGAGCCAGGAGACACTGCAGACAGTGACC  
ATCTACAGCTTTCCGGCGCCCAACGTGATTCTGACGAAGCCAGAGGTCTCAGAAGGGACCGAGGTGACAGTGAAG  
TGTGAGGCCCCACCTAGAGCCAAGGTGACGCTGAATGGGGTTCCAGCCCAGCCACTGGGCCCCGAGGGCCAGCTC  
CTGCTGAAGGCCACCCAGAGGACAACGGGCGCAGCTTCTCCTGCTCTGCAACCCTGGAGGTGGCCGGCCAGCTT  
ATACACAAGAACCAGACCCGGGAGCTTCGTGTCTGTATGGCCCCCGACTGGACGAGAGGGATTGTCCGGGAAAC  
TGGACGTGGCCAGAAAATTCCCAGCAGACTCCAATGTGCCAGGCTTGGGGGAACCCATTGCCCGAGCTCAAGTGT  
CTAAAGGATGGCACTTTCCCACTGCCCATCGGGGAATCAGTGACTGTCACTCGAGATCTTGAGGGCACCTACCTC  
TGTCGGGCCAGGAGCACTCAAGGGGAGGTACCCGCAAGGTGACCGTGAATGTGCTCTCCCCCGGTATGAGATT  
GTCATCATCACTGTGGTAGCAGCCGCACTCATAATGGGCACTGCAGGCCTCAGCACGTACCTCTATAACCGCCAG  
CGGAAGATCAAGAAATACAGACTACAACAGGCCCAAAAAGGGACCCCATGAAACCGAACACACAAGCCACGCCT  
CCCTGAACCTATCCCGGGACAGGGCCTCTTCTCGGCCTTCCCATATTGGTGGCAGTGGTGCCACACTGAACAGA  
GTGGAAGACATATGCCATGCAGCTACACCTACCGGCCCTGGGACGCCGGAGGACAGGGCATTGTCTCAGTCAGA  
TACAACAGCATTGTTGGGCCATGGTACCTGCACACCTAAACACTAGGCCACGCATCTGATCTGTAGTCACATGAC  
TAAGCCAAGAGGAAGGAGCAAGACTCAAGACATGATTGATGGATGTTAAAGTCTAGCCTGATGAGAGGGGAAGTG  
GTGGGGGAGACATAGCCCCACCATGAGGACATAAATGGGAAATACTGAAACTTGCTGCCTATTGGGTATGCTG  
AGGCCCCACAGACTTACAGAAGAAGTGGCCCTCCATAGACATGTGTAGCATCAAAACACAAAGGCCACACTTCC  
TGACGGATGCCAGCTTGGGCACTGCTGTCTACTGACCCCAACCCTTGATGATATGTATTTATTCATTTGTTATTT  
TACCAGCTATTTATTGAGTGTCTTTTATGTAGGCTAAATGAACATAGGTCTCTGGCCTCACGGAGCTCCAGTCC  
TAATCACATTCAAGGTACCCAGGTACAGTTGTACAGTTGTACACTGCAGGAGAGTGCCTGGCAAAAAGATCAAA  
TGGGGCTGGGACTTCTCATTGGCCAACCTGCCTTTCCCCAGAAGGAGTGATTTTTCTATCGGCACAAAAGCACTA  
TATGGACTGGTAATGGTTACAGGTTACAGAGATTACCCAGTGAGGCCTTATTCTCTCCCTCCCCCAAACTGACA  
CCTTTGTTAGCCACCTCCCCACCCACATACATTTCTGCCAGTGTTTACAATGACACTCAGCGGTCATGTCTGGAC  
ATGAGTGCCCGAGGAATATGCCCAAGCTATGCCTTGCTCTTGTCTGTTTGCATTTCACTGGGAGCTTGCACCT  
ATGCAGCTCCAGTTTCTGCACTGATCAGGGTCTGCAAGCAGTGGGGAAGGGGGCCAAGGTATTGGAGGACTCC  
CTCCAGCTTTGGAAGCCTCATCCGCGTGTGTGTGTGTGTGTATGTGTAGACAAGCTCTCGCTCTGTCACCCAGG  
CTGGAGTGCAGTGGTGCAATCATGGTTCACTGCAGTCTTGACCTTTTGGGCTCAAGTGATCCTCCACCTCAGCC  
TCCTGAGTAGCTGGGACCATAGGCTCACAACACCACACCTGGCAAATTTGATTTTTTTTTTTTTTCCAGAGACGG  
GGTCTCGCAACATTGCCAGACTTCCTTTGTGTTAGTTAATAAAGCTTTCTCAACTGCC

368/5332  
**FIGURE 328**

CTTTTGGCCATCGGGTCTCTGTTCCCTCTGTGCTGCTGTTTTTTTTTGGCGGCCGCCTACCCGGGAGTTGGGAGC  
GCGCTGGGACGCCGGACTAAGCGGGCGCAAAGCCCCAAGGGTAGCCCTCTCGCGCCCTCCGGGACCTCAGTGCCC  
TTCTGGGTGCGCATGAGCCCGGAGTTCGTGGCTGTGCAGCCGGGGAAGTCAGTGCAGCTCAATTGCAGCAACAGC  
TGTCGCCAGCCGCAGAAATTCAGCCTCCGCACCCCGCTGCGGCAAGGCAAGACGCTCAGAGGGCCGGGTGGGTG  
TCTTACCAGCTGCTCGACGTGAGGGCCTGGAGCTCCCTCGCGCACTGCCTCGTGACCTGCGCAGGAAAAACACGC  
TGGGCCACCTCCAGGATCACCGCCTACAAACCGCCCCACAGCGTGATTTTGGAGCCTCCGGTCTTAAAGGGCAGG  
AAATACACTTTGCGCTGCCACGTGACGCAGGTGTTCCCGGTGGGCTACTTGGTGGTGACCCTGAGGCATGGAAGC  
CGGGTCATCTATTCCGAAAGCCTGGAGCGCTTCACCGGCCTGGATCTGGCCAACGTGACCTTGACCTACGAGTTT  
GCTGCTGGACCCCGCGACTTCTGGCAGCCCGTGATCTGCCACGCGCGCCTCAATCTCGACGGCCTGGTGGTCCGC  
AACAGCTCGGCACCCATTACACTGATGCTCGGTGAGGCACCCCTGTAAACCTGGGGACTAGGAGGAAGGGGGCAG  
AGAGAGTTATGACCCCGAGAGGGCGCACAGACCAAGCGTGAGCTCCACGCGGGTCGACAGACCTCCCTGTGTTCC  
GTTCTTAATTCTCGCCTTCTGCTCCCAGCTTGGAGCCCCGCGCCACAGCTTTGGCCTCCGGTTCCATCGCTGCC  
CTTGTAGGGATCCTCCTCACTGTGGGCGCTGCGTACCTATGCAAGTGCCTAGCTATGAAGTCCAGGCGTAAAGG  
GGGATGTTCTATGCCGGCTGAGCGAGAAAAAGAGGAATATGAAACAATCTGGGGAAATGGCCATACATGGTGGCT  
GACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGAGAATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTG  
GACAACATAGTGAGACCCCGTCTATGCAAAAAATACACAAATTAGCCTGGTGTGGTGGCCCGCACCTGTGGTCCC  
AGCTACCCGGGAGGCTGAGTTGGGAGGATCCTTTGAGCCCTGAAAGTCGAGGTTGCAGTGAGCCTTGATCGTGCC  
ACTGCACTCCAGCCTGGGGGACAGAGCACGACCCTGTCTCCAAAAATAAAATAAAAAATAAAATAAATATTGGCG  
GGGAACCCCTCTGGAATCAATAAAGGCTTCCTTAACCAGC

369/5332  
**FIGURE 329**

CCGTCCTCTAGCCCAGCTCCTCGGCTCGCGCTCTCCTCGCCTCCTGTGCTTTCCCCGCCGCGGGCGATGCCAGGGC  
CTTCGCCAGGGCTGCGCCGGGCGCTACTCGGCCTCTGGGCTGCTCTGGGCTGGGGCTCTTCGGCCTCTCAGCGG  
TCTCGCAGGAGCCCTTCTGGGCGGACCTGCAGCCTCGCGTGGCGTTTCGTGGAGCGCGGGGGCTCGCTGTGGCTGA  
ATTGCAGCACCAACTGCCCTCGGCCGGAGCGCGGTGGCCTGGAGACCTCGCTGCGCCGAAACGGGACCCAGAGGG  
GTTTTCGTTGGTTGGCGCGGCAGCTGGTGGACATTCGCGAGCCGGAGACTCAGCCCGTCTGCTTCTTCCGCTGCG  
CGCGGCGCACACTACAGGCGCGTGGGCTCATTGCACTTTCAGCGACCAGATCGCGTAGAGCTGATGCCGCTGC  
CTCCCTGGCAGCCGGTGGGCGAGAACTTCACCCTGAGCTGTAGGGTCCCCGGCGCCGGGGCCCCGTGCGAGCCTCA  
CGCTGACCCTGCTGCGGGGCGCCAGGAGCTGATCCGCCGAGCTTCGCCGGTGAACCACCCCGAGCGCGGGGCG  
CGGTGCTCACAGCCACGGTACTGGCTCGGAGGGAGGACCATGGAGCCAATTTCTCGTGTGCGCGCGAGCTGGACC  
TGCGGCGCGACGGACTGGGACTGTTTGAAAACAGCTCGGCCCCCAGAGAGCTCCGAACCTTCTCCCTGTCTCCGG  
ATGCCCCGCGCCTCGCTGCTCCCCGGCTCTTGAAAGTTGGCTCGGAAAGGCCCGTGAGCTGCACTCTGGACGGAC  
TGTTTCCAGCCTCAGAGGCCAGGTCTACCTCGCACTGGGGGACCAGAATCTGAGTCCTGATGTCACCTCGAAG  
GGGACGCATTCGTGGCCACTGCCACAGCCACAGCTAGCGCAGAGCAGGAGGGTGCCAGGCAGCTGGTCTGCAACG  
TCACCCTGGGGGGCGAAAACCGGGAGACCCGGGAGAACGTGACCATCTACAGCTTCCCGGCACCACTCTGACCC  
TGAGCGAACCAGCGTCTCCGAGGGGCGAGATGGTGACAGTAACCTGCGCAGCTGGGGCCCAAGCTCTGGTCACAC  
TGGAGGGAGTTCCAGCCGCGGTCCCGGGGCGAGCCCGCCAGCTTCAGCTAAATGCCACCAGAGAACGACGACAGAC  
GCAGCTTCTTCTGCGACGCCACCCTCGATGTGGACGGGGAGACCCTGATCAAGAACAGGAGCGCAGAGCTTCGTG  
TCCTATACGCTCCCCGGCTAGACGATTCCGACTGCCCCAGGAGTTGGACGTGGCCCCGAGGGCCAGAGCAGACGC  
TGCGCTGCGAGGCCCCGCGGAACCCAGAACCCTCAGTGCACTGTGCGCGCTCCGACGGCGGGGCGCTGTGGCTC  
TGGGCTGCTGGGTCCAGTCACTCGGGCGCTCTCAGGCACTTACCGCTGCAAGGCGGCCAATGATCAAGGCGAGG  
CGGTCAAGGACGTAACGCTAACGGTGGAGTACGCACCAGCGCTGGACAGCGTGGGCTGCCAGAACGCATTACTT  
GGCTGGAGGGAACAGAAGCCTCGCTGAGCTGTGTGGCGCACGGGGTACCGCCGCTGATGTGATCTGCGTGCCT  
CTGGAGAACTCGGGGCGCTCATCGAGGGGCTGTTGCGTGTGGCCCGGGAGCATGCGGGCACTTACCGCTGCGAAG  
CCACCAACCCTCGGGGCTCTGCGGCCAAAATGTGGCGCTCACGGTGAATATGGCCCCAGGTTTGAGGAGCCGA  
GCTGCCCCAGCAATTGGACATGGGTGGAAGGATCTGGGCGCCTGTTTTCTGTGAGGTCGATGGGAAGCCACAGC  
CAAGCGTGAAGTGCCTGGGCTCCGGGGGCGCCACTGAGGGGGTGTGCTGCTGCCGCTGGCACCCCCAGACCCTAGTC  
CCAGAGCTCCCAGAATCCCTAGAGTCCTGGCACCCGGTATCTACGTCTGCAACGCCACCAACCGCCACGGCTCCG  
TGGCCAAAACAGTCGTGCTGAGCGCGGAGTCGCCACCGGAGATGGATGAATCTACCTGCCCAAGTCACCAGACGT  
GGCTGGAAGGGGCTGAGGCTTCCGCGCTGGCCTGCGCCGCCCGGGGTGCCCCCTCCCCAGGAGTGCCTGTCTC  
GGGAAGGCATCCCATGGCCTGAGCAGCAGCGCGTGTCCGAGAGGACGCGGGCACTTACCACTGTGTGGCCACCA  
ATGCGCATGGCACGGACTCCCGGACCGTCACTGTGGGCGTGGAATACCGGCCAGTGGTGGCCGAACCTGTGCTC  
CGCCCCCTGGAGGCGTGCGCCAGGAGGAACTTCAGTTGACCTGCCGCGCGGAGGCCTGGCCTCCAGCCCAGA  
TCAGCTGGCGCGCGCCCCCGGGGGCCCTCAACATCGGCCTGTGAGCAACAACAGCACACTGAGCGTGGCAGGCG  
CCATGGGAAGCCACGGCGGCGAGTACGAGTGCGCAGCCACCAACGCGCACGGGCGCCACGCGCGGCGCATCACGG  
TGCGCGTGGCCGGTCCGTGGCTATGGGTGCGCGTGGGCGGCGCGGGGGGCGCGCGCTGTGGCCGCGGGGG  
CCGGCCTGGCCTTCTACGTGCACTCCACCGCCTGCAAGAAGGGCGAGTACAACGTGCAAGGAGCCGAGAGCTCAG  
GCGAGGCGGTGTGTCTGAACGGAGCGGGCGGCGGCGCTGGCGGGGCGGCAGGCGCGGAGGGCGGACCCGAGGCGG  
CGGGGGGCGCGGCCGAGTGC CGGCGGAGGGCGAGGTCTTCGCCATACAGCTGACATCGGCGTGAGCCCCGCTCCC  
CTCTCCCCGCGGGCGGGGGACGCCCCCAGACTCACACGGGGGCTTATTTATTGCTTTATTTATTTACTTATTC  
ATTTATTTATGTATTCAACTCCAAGGGCGTACCCCCATTTCTACCCATCCCCTCAATAAAGTTTTTATAAAGG  
A

370/5332  
**FIGURE 330**

ATGGAGGCCGAGCCAATCCCGGACTCCTCAATGCCAGCAAAGCTTCTGGCGCCGCCCTGTCTGAACCTGGAGCGG  
CTGGGAGGATCCCCCTCCAGGAGAAGCCGAGGACCCAGGATGCTGCAGAATCAGTGAGAGGGTACACAAAGAG  
CCGGCCCAAGTTGGAACCCCCCTGGCCGGCTAAACCCAGGAGTCACCCAAGAAAACGTGACCCCACTGCCCTTCTC  
CCCAGGTCCCTCTGGCCTGCATGCCAGGAGTCGGTCACCGCCCTGTGCTTCCTCCAAGAGACAGTGGAGAGGCTG  
GGGCCGCCTGCTGCTGGACAGGGATTCCAAGGACACACAGACCAGGATCAGCCAAAAGGGCCGCGTCTGCAGCC  
CCCGGGGACTCCCTCGGCCCCACCCAGAGAAGGCCCCGAAACAGCTGAACCCCTGCCGGGGCACCGAGAGAGT  
GGACCCTGGGTTCGAGGGGGTGACTCTGAAGTTTCAGATAAAGCCGGACTCCAGCCTGCAGATCATCCCCACGTA  
CAGTTACAACGCAAACACCAAGTGTGGGAGCCTGCCCTGCAGTAGCCGTTCTCAGGAATCCCCTGCAGATGCTGTT  
GGGGGCCCTGCAGCCCACCCAGGAGGCACCGAGGCCCCACTCAGCAGGCAGCGAGGCCCTGGAGCCCCGGCGCTGT  
GCTTCCTGTCTGGACCCAGAGGACCCCGCTCTGGAGAGACGCTGAAGATGGGACCCCTCTCTGCAACGCCTGTGGG  
ATCAGGTACAAGAAATACGGCACTCGCTGCTCCAGCTGCTGGCTGGTGGCCAGGAAAAATGTCCAGCCCAAGAGG  
CTATGTGGCAGATGTGGAGTGTCCTGGACCCATTTCAGGAAGGTTAA



371/5332  
**FIGURE 331**

GATGCATGTCATGGCCGCCTCCATGGCCCGGGGAGGCGTGAGTGCCAGGGTTCTACTGCAGGCTGCCAGGGGCAC  
CTGGTGGAACAGACCTGGGGGCACTTCCGGGTCGGGGGAGGGGGTGGCGCTGGGGACAACCAGAAAGTTTCAAGC  
GACAGGCTCGCGCCCGGCTGGAGAGGAGGACGCGGGCGGCGCCGGAGCGGCGCGGGGACGTGGTGAACGTGGTGTT  
CGTAGACCGCTCAGGCCAGCGGATCCAGTGAGTGCCAGAGTCGGGGACAATGTTCTTTCACCTGGCCCAGCGCCA  
CGGGGTGGACCTGGAAGGGGCCTGTGAAGCCTCCCTGGCCTGCTCCACCTGCCATGTGTATGTGAGTGAAGACCA  
CCTGGATCTCCTGCCTCCTCCCGAGGAGAGGGAAGACGACATGCTAGACATGGCCCCCTCCTCCAGGAGAACTC  
GCGGCTGGGCTGCCAGATTGTGCTGACACCGGAGCTGGAAGGAGCGGAATTCACCCTGCCCAAGATCACCAGGAA  
CTTCTACGTGGATGGCCATGTCCCAAGCCCCACTTGACATGAACACCTGGACCATTCCACATTGCCATGGCCCCA  
GGGCCCAGATTGAGGGAATAGCCAGGTGCCAGCCCTGCCCAGAGTGCGGACAGGCCCGGGAGAGACGTGGAAGCC  
CCTGTGAAGGACAACACCCCTGCTTGGGAGAGAGTCCCATGTCCAGGCTCTGGTGGGGACAGGGCCCCCTAGTGGG  
GTGGCCTTCCCCAGGCCCTGAGAATCAGGGTTTGAGTAGGAGTGGAATCATATTGGAGCTGCAATAAATCGATA  
ACACAG

372/5332  
**FIGURE 332**

CAAGATGGCGGCGGACGTGTCCGTTACTCACCGGCCCCCGCTGAGCCCTAAGTCTGGGGCCGAAGTCGAAGCCGG  
CGATGCCGCGGAGCGCCGGGCGCCGGAAGAAGAGCTGCCGCTCTAGATCCAGAAGAGATCCGGAAACGCCTGGA  
ACACACCGAGCGCCAGTTCCGTAACCGCCGCAAGATACTGATCCGGGGGCTCCCGGGGGACGTGACCAACCAGGA  
AGTACATGACCTGCTCAGTGACTATGAGCTCAAATACTGTTTTGTGGACAAATACAAAGGGACAGCCTTCGTGAC  
CCTGCTGAATGGGGAGCAGGCCGAGGCCGCAATCAATGCTTTCCACCAGAGCCGCTGCGGGAGCGTGAAGTGTG  
GGTGCAGCTGCAGCCACGGATGCCCTGCTGTGTGTGGCCAACTGCCCCCAGCCTCACACAGCAGCAGTTGGA  
GGAGCTGGTGGCGCCCTTCGGCAGCCTGGAGCGCTGCTTCCTGGTCTACAGTGAGCGCACTGGCCAATCCAAGGG  
CTATGGCTTTGCTGAGTACATGAAGAAGGACTCGGCTGCCCCGTGCCAAGTCGGACCTGCTGGGCAAGCCGCTGGG  
ACCACGCACCCTCTACGTGCACTGGACGGATGCCGGGCAACTGACGCCTGCCCTTCTCCACTCCCGCTGCCTCTG  
TGTGGACCGCTGCCACCTGGCTTCAACGATGTGGACGCTCTGTGCCGGGCGCTGTGAGCTGTCCACAGCCCCAC  
CTTCTGCCAGCTGGCGTGGCGCCAGGATGGGCAGCTGAAGGGCTTCGCGGTGCTGGAGTATGAGACGGCTGAGAT  
GGCGGAGGAGGCACAGCAGCAGGCGGACGGCCTGTCCCTGGGGGGCAGCCACCTGCGAGTCTCCTTCTGCGCCCC  
TGGGCCCCCGGCCGAGTATGCTGGCCGCTCTCATCGCTGCCAGGCCACGGCCCTCAATCGGGGAAGGGACT  
CCTCCCCGAGCCCAACATCCTGCAGCTGCTCAACAACCTGGGGCCATCCGCGTCCCTCCAGCTGCTGCTCAACCC  
CCTGCTCCATGGCAGTGCGGGGGGAAGCAGGGCCTCCTGGGTGCCCCCAGCCATGCCGCTGCTCAATGGGCC  
AGCCCTGTCCACGGCGCTGTTGCAGCTCGCCCTGCAGACCCAGGGCCAGAAGAAGCCCGGCATCCTGGGAGACTC  
ACCCCTGGGCGCCCTCCAGCCTGGGGCCCAGCCAGCCAACCCCTCCTCGGGGAGCTGCCTGCAGGAGGGGGCCT  
GCCCCCGGAGCTGCCGCCCCGGCGAGGGAAGCCACCACCCCTGCTGCCATCCGTGCTTGGCCCTGCTGGGGGTGA  
CCGGGAGGCCCTGGGCTTGGGTCCCCCAGCGGCCAGCTCACTCCTCCCCCGCCCCCTGTGGGGCTCCGAGGCTC  
TGGCCTCAGAGGCCTCCAGAAAGACAGTGGGCCTCTGCCGACGCCCCCTGGGGTCTCACTGCTGGGGGAGCCCCC  
CAAGGACTACCGGATTCCCCTGAATCCCTACCTGAACCTACACAGCCTGCTCCCGGCCAGCAACCTGGCGGGTAA  
GGAGGCCCGGGGCTGGGGAGGCGCCGGGAGAAGCCGCGCCAGCTGAGGGCCCCCAACTAACCCCCAGCCCC  
TGGAGGTGGCAGCAGCAGCAGCAAAGCCTTCCAGCTCAAGTCCCGCCTGCTCAGCCCCCTCAGCAGCGCCCGCCT  
GCCCCCGAACCAGGACTGTCTGACAGCTACAGCTTCGACTACCCCTCGGACATGGGACCTCGGCGGCTCTTCTC  
CCACCCACGGGAACCAGCCCTTGGGCCTCACGGACCCAGCCGACACAAGATGTCCCCCGCCAGTGGCTTCGG  
CGAACGGAGCAGCGGTGGGAGTGGCGGGGGCCCCCTGTCTCACTTCTATTAGGCTCGCCCACTTCTACTTCAC  
CAGCGGCCTGCAGGCTGGCCTCAAGCAGAGCCACCTCAGTAAGGCAATCGGCTCTTCCCCGCTGGGGTCCGGAGA  
AGGGCTCCTGGGCCTCAGCCCCGGGCCTAATGGTCACAGCCACCTGCTGAAGACCCCACTGGGCGGCCAGAAACG  
CAGCTTTGCCACCTGCTGCCCTCGCCGAGCCAGCCAGCAAGGCAGCTATGTGGGCCAGCACTCCAGGGCCT  
CGGCGGCCACTACGCGGACTCCTACCTGAAGCGGAAGAGGATTTTCTAAGTGGCTGGCACCAGAGATAACTCAAG  
GGCCTGCACCAAATCGCTTTTGGGTTTTCTGATGTTTTGTTTTGTTTTTTTAAACCATTTCTCTCTTTCCG  
TAATAGAAAAATCTCTGAAAGACTTTACTGACCAATCAGCCGAGCCCCAGGAGCCCAAGGGGTGTGGGGGAGTC  
TGGAGGCCTCATTATGTCTCTGGCTTGGTCCCCACGCTGAAACCCTGCAGCCTTAAGAGAGAGGGGCCCCGGCCT  
GCTCTCCCTCCCTCCCCCATCTCCTCCTCCGCTGTGCCGCTCTCCTCGGAGCCCTCCTGCCTCATTGCTCCTGT  
AATTTTGGCCTTTTCGAGTGCCCTGGAGGTTTCCCTGACCTCCCGTGAAGATACAGAGACTGTCTCCTTTTTTTTT  
AACTTTGACAACCTGACTTCTGTTTCTTTCTAAGTTTATTTTTCAAACCACCCCGGACAGCCCCAGCTCTGA  
TTCTTTCAAGGCCCGGCCTGTCCGGGCCACCATTCACACCTTGCGGTTTGAAACAGCTGTTTTTCCACATTTG  
CTGCAGGCATGGCTGTCTCCTGCCCTGCCTGCCATCTGGCCTATACCCAGCCGTGGGGCCCCGGGTCCCTGC  
CGCAGCCCCCTCCCCTTCTGATGCCTTAAAGCTGGGCCCCAGGCCCTGCTGGCCAGAGCCACAGATGCCAAGCT  
CTGGGAGCTTGACTATGGACCAAACAGCTCTGGCCTAGGGATTGGGCCACCCTACCCAGGATCTCCACCCTGGGG  
ACAGTAGAAGGGGAAAGCCTTCATCTTGGCGAACCGGCCCCACCACCCCTCCTACCCGGGCCTCCGTGCAGAGA  
TGGGCTTTCTCTGCCAGTCCCTGCTGTCTGTGTGGGAGTCGGACATTGTGCCATCTCCCGGAGCCTCTGCT  
GTCACTCGCTTGTGAAGATGAATTCTTGAATTCTGCCTGCCCCACCCCGGCCAGATCCCTGGAGCTGGCCTCCT  
TCCAGCCCAGTGCCAGAAACCAGCACTCCATGAAGATAAACTCTGGGGCCCGCCACCAGCAGGACCTGTGCACCT  
GAGGTGACCCTGGGCTTGGCCCCAGCCAACCTGGGCCACCAGCTTCCCTCCCTTGACTCTGGGGGTCCACATCCA  
CTCCAAGGGGACTATTCCCCGACCCACCCAGTCTCCCCACACGGACCTTGTGTAATTAAAGTTTGTAAGTA  
AATGGTTTTTAAAG

373/5332  
**FIGURE 333**

CTCTGTCAGAAATGCCACCATGGTACCATCCGTGTTGTGGCCAGGGCCTGCTGGACTCTGCTGGTCTGCTGTCT  
GCTGACCCCAGGTGTCCAGGGGCAGGAGTTCCTTTTGGCGGTGGAGCCCCAGAACCCTGTGCTCTCTGCTGGAGG  
GTCCCTGTTTGTGAACTGCAGTACTGATTGTCCAGCTCTGAGAAAATCGCCTTGGAGACGTCCCTATCAAAGGA  
GCTGGTGGCCAGTGGCATGGGCTGGGCAGCCTTCAATCTCAGCAACGTGACTGGCAACAGTCGGATCCTCTGCTC  
AGTGTACTGCAATGGCTCCCAGATAACAGGCTCCTCTAACATCACCGTGTACAGGCTCCCGGAGCGTGTGGAGCT  
GGCACCCTGCCTCCTTGGCAGCCGGTGGGCCAGAACTTACCCTGCGCTGCCAAGTGGAGGATGGGTGCCCCG  
GACCAGCCTCACGGTGGTGTCTGCTTCGCTGGGAGGAGGAGCTGAGCCGGCAGCCCGCAGTGGAGGAGCCAGCGGA  
GGTCACTGCCACTGTGCTGGCCAGCAGAGACGACCACGGAGCCCCCTTCTCATGCCGCACAGAACTGGACATGCA  
GCCCCAGGGGCTGGGACTGTTCTGTAACACCTCAGCCCCCGCCAGCTCCGAACCTTTGTCCTGCCCGTGACCCC  
CCCGCGCCTCGTGGCCCCCGGTTCTTGGAGGTGGAAACGTGCTGGCCGGTGGACTGCACCCTAGACGGGCTTTT  
TCCAGCCTCAGAGGCCCAGGTCTACCTGGCGCTGGGGGACCAGATGCTGAATGCGACAGTCATGAACCACGGGGA  
CACGCTAACGGCCACAGCCACAGCCACGGCGCGCGCGGATCAGGAGGGTGCCCGGGAGATCGTCTGCAACGTGAC  
CCTAGGGGGCGAGAGACGGGAGGCCCGGGAGAAGTTGACGGTCTTTAGCTTCCTAGGACCCATTGTGAACCTCAG  
CGAGCCCACCGCCCATGAGGGGTCCACAGTGACCGTGAGTTGCATGGCTGGGGCTCGAGTCCAGGTACGCTGGA  
CGGAGTTCGGCCGCGGGCCCCGGGGCAGCCAGCTCAACTTCAGCTAAATGCTACCGAGAGTGACGACGGACGCAG  
CTTCTTCTGCAGTGCCACTCTCGAGGTGGACGGCGAGTTCTTGACAGGAACAGTAGCGTCCAGCTGCGAGTCCT  
GTAAGGTCCCAAATTGACCGAGCCACATGCCCCAGCACTTGAAATGGAAAGATAAAACGAGACACGTCTTGCA  
GTGCCAAGCCAGGGGCAACCCGTACCCGAGCTGCGGTGTTTGAAGGAAGGCTCCAGCCGGGAGGTGCCGGTGGG  
GATCCCGTTCTTCGTCAACGTAACACATAATGGTACTTATCAGTGCCAAGCGTCCAGCTCACGAGGCAAATACAC  
CCTGGTCTGTTGATGGACATTGAGGCTGGGAGCTCCCACTTTGTCCCCGTCTTCGTGGCGGTGTTACTGACCCT  
GGGCGTGGTGACTATCGTACTGGCCTTAATGTACGTCTTCAGGGAGCACCAACGGAGCGGCAGTTACCATGTTAG  
GGAGGAGAGCACCTATCTGCCCCCTACGTCTATGCAGCCGACAGAAGCAATGGGGGAAGAACCCTCCAGAGCTGA  
GTGACGCTGGGATCCGGATCAAAGTTGGCGGGGGCTTGGCTGTGCCCTCAGATTCCGCACCAATAAAGCCTTCA  
AACTCCCT

374/5332  
**FIGURE 334A**

GACGCGGGCGCGGAAGGAGCGCGGCCGGAGGTCCTCAGGAAGAAGCCGCGGGGACTGGCTGCGCTTGACAGGCTG  
CACTTGGATGGGAGCACCTGGTGCTCGGGACTGCTCCGATGCCCGGTCTGTGCTGAATGTGTAATATGCGGAA  
CTATATTGAAACATTACAACCATCTTTTGATGGCAACACCCTGAGGACCTCCCTTTTCCAGATGGGGAAACTGAG  
GCCCAGAATTGCTAAGTGGCTTGCTTGAGTTGACACAGGGAGCTCCAGGACTCACCTCAGCTGAGCCACCTGCC  
GGGAGCATGCCTCTGCGCCACTGGGGGATGGCCAGGGGCAGTAAGCCCGTTGGGGATGGAGCCCAGCCCATGGCT  
GCCATGGGAGGCCTGAAGGTGCTTCTGCACTGGGCTGGTCCAGGCGGCGGGGAGCCCTGGGTCACTTTTCAGTGAG  
TCATCGCTGACAGCTGAGGAAGTCTGCATCCACATTGCACATAAAGTTGGTATCACTCCTCCTTGCTTCAATCTC  
TTTGCCCTCTTCGATGCTCAGGCCCAAGTCTGGTTGCCCCCAAACCACATCCTAGAGATCCCCAGAGATGCAAGC  
CTGATGCTATATTTCCGCATAAGGTTTTATTTCGGAACTGGCATGGCATGAATCCTCGGGAAACCGGCTGTGTAC  
CGTTGTGGGCCCCCAGGAACCGAGGCATCCTCAGATCAGACAGCACAGGGGATGCAACTCCTGGACCCAGCCTCA  
TTTGAGTACCTCTTTGAGCAGGGCAAGCATGAGTTTGTGAATGACGTGGCATCACTGTGGGAGCTGTGACCGAG  
GAGGAGATCCACCACTTTAAGAATGAGAGCCTGGGCATGGCCTTTCTGCACCTCTGTACCTCGCTCTCCGCCAT  
GGCATCCCCCTGGAGGAGGTGGCCAAGAAGACCAGCTTCAAGGACTGCATCCCGCGCTCCTTCCGCCGGCATATC  
CGGCAGCACAGCGCCCTGACCCGGCTGCGCCTTCGGAACGTCTTCCGCAGGTTCTGCGGGACTTCCAGCCGGGC  
CGACTCTCCCAGCAGATGGTCATGGTCAAATACCTAGCCACACTCGAGCGGCTGGCACCCCGCTTCGGCACAGAG  
CGTGTGCCCCGTGTGCCACCTGAGGCTGCTGGCCCAGGCCGAGGGGGAGCCCTGCTACATCCGGGACAGTGGGGTG  
GCCCCACAGACCCCTGGCCCTGAGTCTGCTGCTGGGCCCCCAACCCACGAGGTGCTGGTGACAGGCACTGGTGGC  
ATCCAGTGGTGGCCAGTAGAGGAGGAGGTGAACAAGGAGGAGGGTTCTAGTGGCAGCAGTGGCAGGAACCCCCAA  
GCCAGCCTGTTTGGGAAGAAGGCCAAGGCTCACAAGGCAGTCGGCCAGCCGGCAGACAGGCCGCGGGAGCCACTG  
TGGGCCTACTTCTGTGACTTCCGGGACATCACCCACGTGGTGTGAAAGAGCACTGTGTGAGCATCCACCGGCAG  
GACAACAAGTGCCTGGAGCTGAGCTTGCTTCCCGGGCTGCGGCGCTGTCTTCTGTGCTGGTGGACGGCTAT  
TTCCGCCTGACGGCCGACTCCAGCCACTACCTGTGCCACGAGGTGGCTCCCCACGGCTGGTGATGAGCATCCGG  
GATGGGATCCACGGACCCCTGCTGGAGCCATTTGTGCAGGCCAAGCTGCGGCCGAGGACGGCCTGTACCTCATT  
CACTGGAGCACCAGCCACCCCTACCGCCTGATCCTCACAGTGGCCCAGCGTAGCCAGGCACCAGACGGCATGCAG  
AGCTTGCGGCTCCGAAAGTTCCCCATTGAGCAGCAGGACGGGGCCTTCGTGCTGGAGGGCTGGGGCCGGTCTTC  
CCCAGCGTTCGGGAACCTTGGGGCTGCCTTGACAGGGCTGCTTGCTGAGGGCCGGGGATGACTGCTTCTCTGCGT  
CGCTGTTGCCTGCCCCAACCAGGAGAAACCTCCAATCTCATCATCATGCGGGGGGCTCGGGCCAGCCCCAGGACA  
CTCAACCTCAGCCAGCTCAGCTTCCACCGGGTTGACCAGAAGGAGATACCCAGCTGTCCCACTTGGGCCAGGGC  
ACAAGGACCAACGTGTATGAGGGCCGCTGCGAGTGGAGGGCAGCGGGACCCCTGAGGAGGGCAAGATGGATGAC  
GAGGACCCCTCGTGCTGGCAGGGACCGTGGGCAGGAGCTACGAGTGGTGCTCAAAGTGCTGGACCCCTAGTCAC  
CATGACATCGCCCTGGCCTTCTACGAGACAGCCAGCCTCATGAGCCAGGTCTCCACACGCACCTGGCCTTCGTG  
CATGGCGTCTGTGTGCGCGGCCCTGAAAATATCATGGTGACAGAGTACGTGGAGCACGGACCCCTGGATGTGTGG  
CTGCGGAGGGAGCGGGGCCATGTGCCATGGCTTGAAGATGGTGGTGGCCAGCAGCTGGCCAGCGCCCTCAGC  
TACCTGGAGAACAAGAACCTGGTTTCATGGTAATGTGTGTGGCCGAACATCCTGCTGGCCCGGCTGGGGTTGGCA  
GAGGGCACCAGCCCTTCATCAAGCTGAGTGATCCTGGCGTGGGCTGGGCGCCCTCTCCAGGGAGGAGCGGGTG  
GAGAGGATCCCCTGGCTGGCCCCGAATGCCTACCAGGTGGGGCCAACAGCCTAAGCACCGCCATGGACAAGTGG  
GGGTTTGGCGCCACCCTCCTGGAGATCTGCTTTGACGGAGAGGGCCCTCTGCAGAGCCGCAGTCCCTCCGAGAAG  
GAGCATTCTACAGAGGCAGCACCGGCTGCCGAGCCCTCCTGCCACAGCTGGCCACACTCACCGGCTGCAGCCCCACAAT  
CTTGCTGACGTCTTGACTGTGAACCCGACTCACCGGCGTCGGACCCCTACGGTTTTCCACAAGCGCTATTTGAAA  
AAGATCCGAGATCTGGGCGAGGGTCACTTCGGCAAGGTGAGCTTGTACTGCTACGATCCGACCAACGACGGCACT  
GGCGAGATGGTGGCGGTGAAAGCCCTCAAGGCAGACTGCGGCCCCCAGCACCGCTCGGGCTGGAAGCAGGAGATT  
GACATTCTGCGCACGCTCTACCACGAGCACATCATCAAGTACAAGGGCTGCTGCGAGGACCAAGGCGAGAAGTCG  
CTGCAGCTGGTCATGGAGTACGTGCCCTGGGCAGCCTCCGAGACTACCTGCCCCGGCACAGCATCGGGCTGGCC  
CAGCTGCTGCTCTTCGCCAGCAGATCTGCGAGGGCATGGCCTATCTGCACGCGCAGCACTACATCCACCGAGAC  
CTAGCCGCGCGCAACGTGCTGCTGGACAACGACAGGCTGGTCAAGATCGGGGACTTTGGCCTAGCCAAGGCCGTG  
CCCGAAGGCCACGAGTACTACCGCGTGCGGAGGATGGGGACAGCCCCGTGTTCTGGTATGCCCCAGAGTGCCTG  
AAGGAGTATAAGTTCTACTATGCGTCAGATGTCTGGTCCTTCGGGGTGACCCTGTATGAGCTGCTGACGCACTGT

375/5332  
**FIGURE 334B**

GACTCCAGCCAGAGCCCCCCCACGAAATTCCTTGAGCTCATAGGCATTGCTCAGGGTCAGATGACAGTTCTGAGA  
CTCACTGAGTTGCTGGAACGAGGGGAGAGGCTGCCACGGCCCGACAAATGTCCCTGTGAGGTCTATCATCTCATG  
AAGAACTGCTGGGAGACAGAGGCGTCCTTTGCCCCAACCTTCGAGAACCTCATACCCATTCTGAAGACAGTCCAT  
GAGAAGTACCAAGGCCAGGCCCCCTTCAGTGTTGAGCGTGTGCTTGAGGCACAATGGCAGCCCTGCCTGGGAGGACT  
GGACCAGGCAGTGGCTGCAGAGGGAGCCTCCTGCTCCCTGCTCCAGGATGAAACCAAGAGGGGGATGTCAGCCTC  
ACCCACACCGTGTGCCTTACTCCTGTCTAGAGACCCACCTCTGTGAACTTATTTTTCTTTCTTGGCCGTGAGCC  
TAACCATGATCTTGAGGGACCCAACATTTGTAGGGGCACTAATCCAGCCCTTAAATCCCCAGCTTCCAAACTTG  
AGGCCCACCATCTCCACCATCTGGTAATAAACTCATGTTTTCTCTGCTGG

376/5332  
**FIGURE 335**

CGCTCCTAGTCTCCACTGCTGCCGCCGTCGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGT  
GGACTACAGCGTGTGGGACCACATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAG  
TCTCTTCCGCTGGCGGCATCAGGCCCGGGTGGAAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAAGTGGACAG  
GGGCTGCCGCGAGTGCAAGCGCAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGG  
CAAGGCAGAGCTGGAGCGCCTGCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAAGCT  
GGAGGAGATGCGCAAGAAGGAGAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAG  
CATGGTAAATACCAAGCCCGAGAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGT  
GGAAAAATACGAGAAACAGATCAAGCACTTTGGTGAGTGGGGCTTGTGGGTTATGGGGGGCAAGGTTCGAGGCAGG  
CCCTTTGCCTCCAGGGCCCTCCAGCACCTTGCCAGCATCTTCCACAGGCATGCTTCGCCGCTGGGATGACAGCC  
AAAAGTACCTGTGACACAACGTCCACCTGGTGTGCGAGGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACC  
TAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGTGGCCCCACCAGACAATCGTCATGCAATTTATCCTGGAGC  
TGGCCAAGAGCCTAAAGGTGGACCCCCGGGCTGCTTCCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCC  
AGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTTCAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCG  
AGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAAGAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGG  
TCTACGAGTCCCTCCCTGAGGAACCTCCAGAAGTGCTTCGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCA  
GCAAGATGGACCCACCGACGCAAGTACCACATGCAGCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTA  
AGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCTTGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCG  
ATGAGAAGGATGTGAGTGTGTGACCTGCCCCAGCTACCACCGCCACCTGCTTCCAGGCCCCATGTGCCCTTTT  
CAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGACTTCCTCTACTTGCGCTGCTCGGCCCAGCCTGGGGGGCC  
CGCCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTCTCCAGCGCCATTCAAGTCTCTGCTTTGAGTCAAGGGG  
CTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAAAGGCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGC  
TGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAGGGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTT  
GTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAATGATCTTCCAATAAAAGATTTTCAGATGCTCTCTGGGCTG  
CTGGGAGGGCCGTTCA

377/5332  
**FIGURE 336A**

CGGCCGGGCGCACCCGCGGGGCCCTGGGCTCGCTGGCTTGCGCGCAGCTGAGCGGGGTGTAGGTTGGAAGGGCCA  
GGGCCCCCTGGGGCGCAAGTGGGGGCCGGCGCCATGGAACCCCCGACCGTCCCCCTCGGAAAGGAGCCTGTCTCTG  
TCACTGCCCCGGGCCCCGGGAGGGCCAGGCCACCCTGAAGCCTCCCCCGCAGCACCTGTGGCGGCAGCCTCGGACC  
CCCATCCGTATCCAGCAGCGCGGCTACTCCGACAGCGCGGAGCGCGCCGAGCGGGAGCGGCAGCCGCACCGGCCCC  
ATAGAGCGCGCCGATGCCATGGACACCAGCGACCGGCCCGGCTGCGCACGACCCGCATGTCTTGGCCCTCGTCC  
TTCCATGGCACTGGCACCGGCAGCGGCGGGCGGGCGGAGGCAGCAGGCGCTTCGAGGCAGAGAATGGGCCG  
ACACCATCTCCTGGCCGACCCCCCTGGACTCGCAGGCGAGCCCAGGACTCGTGCTGCACGCCGGGGCGGCCACC  
AGCCAGCGCCGGGAGTCCCTTCTGTACCGCTCAGACAGCGACTATGACATGTCACCCAAGACCATGTCCCGGAAC  
TCATCGGTACCCAGCGAGGCGCACGCTGAAGACCTCATCGTAACACCAATTTGCTCAGGTGCTGGCCAGCCTCCGG  
AGCGTCCGTAGCAACTTCTCACTCCTGACCAATGTGCCCCGTTCCAGTAACAAGCGGTCCCCGCTGGGCGGCCCC  
ACCCCTGTCTGCAAGGCCACGCTGTCAGAAGAAACGTGTGACGAGTTGGCCCCGGGAGACTCTGGAGGAGCTGGAC  
TGGTGTCTGGAGCAGCTGGAGACCATGCAGACCTATCGCTCTGTGACGAGATGGCCTCGCACAAAGTTCAAAAGG  
ATGTTGAACCGTGAGCTCACACACCTGTGAGAAATGAGCAGGTCCGGAACACAGGTCTCAGAGTACATTTCCACA  
ACATTCCTGGACAAAACAGAATGAAGTGGAGATCCCATCACCCACGATGAAGGAACGAGAAAAACAGCAAGCGCCG  
CGACCAAGACCCCTCCAGCCGCCCCCGCCCCCTGTACCACACTTACAGCCCATGTCCCAAATCACAGGGTTGAAA  
AAGTTGATGCATAGTAACAGCCTGAACAACCTTAACATTCCCCGATTTGGGGTGAAGACCGATCAAGAAGAGCTC  
CTGGCCCAAGAACTGGAGAACCTGAACAAGTGGGGCCTGAACATCTTTTGGTGTGCGGATTACGCTGGAGGCCG  
TCACTCACCTGCATCATGTACATGATATTCCAGGAGCGGGACCTGCTGAAGAAATTCGCGATCCCTGTGGACACG  
ATGGTGACATACATGCTGACGCTGGAGGATCACTACCACGCTGACGTGGCCTACCATAACAGCCTGCACGCAGCT  
GACGTGCTGCAGTCCACCCACGTACTGCTGGCCACGCTGCACTAGATGCAGTGTTACGGACCTGGAGATTCTC  
GCCGCCCTCTTCGCGGCTGCCATCCACGATGTGGATCACCTGGGGTCTCCAACCAAGTTCCCTCATCAACACCAAT  
TCGGAGCTGGCGCTCATGTACAACGATGAGTCGGTGTCTGAGAATCACCACTGGCCGTGGGCTTCAAGCTGCTG  
CAGGAGGACAACCTGCGACATCTTCCAGAACCTCAGCAAGCGCCAGCGGCAGAGCCTACGCAAGATGGTCATCGAC  
ATGGTGTGTCGGCCACGGACATGTCCAAGCACATGACCCCTCCTGGCTGACCTGAAGACCATGGTGGAGACCAAGAAA  
GTGACCAGCTCAGGGGTCTCTCTGTAGATACTACTCCGACCGCATCCAGGTCCCTCCGGAACATGGTGCATGT  
GCCGACCTCAGCAACCCACCAAGCCGCTGGAGCTGTACCGCCAGTGGACAGACCGCATCATGGCCGAGTTCTTC  
CAGCAGGGTGACCGAGAGCGCGAGCGTGCGATGGAAATCAGCCCCATGTGTGACAAGCACACTGCCTCCGTGGAG  
AAGTCTCAGGTGGGTTTTTATTGACTACATTGTGCACCCATTGTGGGAGACCTGGGCGGACCTGTCCACCCAGAT  
GCCCAGGAGATCTTGGACACTTTGGAGGACAACCGGGACTGGTACTACAGCGCCATCCGGCAGAGCCCATCTCCG  
CCACCCGAGGAGGAGTCAAGGGGGCCAGGCCACCCACCCCTGCCTGACAAGTTCCAGTTTGAGCTGACGCTGGAG  
GAGGAAGAGGAGGAAGAAATATCAATGGCCCAGATACCGTGCACAGCCCAAGAGGCATTGACTGCGCAGGGATTG  
TCAGGAGTCGAGGAAGCTCTGGATGCAACCATAGCCTGGGAGGCATCCCCGGCCCAGGAGTCGTGGAAAGTTATG  
GCACAGGAAGCATCCCTGGAGGCCGAGCTGGAGGCAGTGTATTTGACACAGCAGGCACAGTCCACAGGCAGTGCA  
CCTGTGGCTCCGGATGAGTTCTCGTCCCGGGAGGAATTCGTGGTTGCTGTAAGCCACAGCAGCCCCCTCTGCCCTG  
GCTCTTCAAAGCCCCCTTCTCCCTGCTTGGAGGACCTGTCTGTTTCAGAGCATGCCCCGGGCTCCCGGGCCCTC  
CCCTCCACGGCGGCCGAGGTGGAGGCCCAACGAGAGCACCAGGCTGCCAAGAGGGCTTGCAAGTGCCTGCGCAGGG  
ACATTTGGGGAGGACACATCCGCACTCCCAGCTCCTGGTGGCGGGGGGTGAGGTGGAGACCCTACCTGATCCCCA  
GACCTCTGTCCCTGTTCCCTCCACTCCTCCCCCTCACTCCCCCTGCTCCCCCGACCACCTCCTCCTCTGCCTCAAA  
GACTCTTGTCTCTTGTCCCTCCTGAGAAAAAAGAAAAACGAAAAGTGGGGTTTTTTTTCTGTTTTTTTTTTCC  
CTTTCCCCCTGCCCCACCCACGGGGCCTTTTTTGGAGGTGGGGGCTGGGGAATGAGGGGCTGAGGTCCCGGAA  
GGGATTTTATTTTTTTGAATTTTAATTGTAACATTTTTTAGAAAAAGAACAAAAAAGAAAAAAGAAAGAAA  
CACAGCAACTGTAGATGCTCCTGTTCTGGTTCCCGCTTTCCACTTCCAAATCCCTCCCTCACCTTCCCCACT  
GCCCCCAAGTCCAGGCTCAGTCTTCCAGCCGCTGGGGAGTCTCTACCTGGGCCCAAGCAGGTGTGGGGCCTC  
CTTCTGGGCTTTCTTCTGAATTTAGAGGATTTCTAGAACGTGGTCAGGAATAGCCATTCTAGGCGGGGCTGGGG  
CCAGGTGGGGGGCAGTCACTGTGGGAGGTCCAGCTCCAGCCCCCTCTGGTTTGCTGCCTCCTCTCCCCCTTA  
AAAAAGTCTTCCGCTTGATTTTGACAATCCCGCGGATACTCCTGGCGATACTGACTAGAAAGTCAGGGAGCTGG  
GGGAGCTGTTCACTTTAGGATACGGGGGTGGTATGGAAGGGAGCGTTACACCGCCAGCCTCGGGCCTGGGATTT  
GAGGAGGGCCCTAGACCTCCTCCACTCTCCATCCCCCTTCCCTTCCACTTTGGGTTCACTTTGAATTTTCTCCGT

378/5332  
**FIGURE 336B**

TTTTTGGGGCAGTGGCTCTGATCCACTCACCCCCCGCCCC



379/5332  
**FIGURE 337**

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT  
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCGAGCCAGATCCCAGGCCTAGCGGGGCTGGGGCCTG  
CTGCCGATTCTTGCCCTGCAGTCACAGTGCCTTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG  
CAAGGCGGAGGTGACGCCCCTCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC  
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTACACTGCAGGTCAAGTACCAGGATGC  
ACCGGCCGCCCAGTTTCATGGCCCACAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA  
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTTCATGGAGCGCCTCATTGA  
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTTCATGAACGGTGCTGTTCATGTACCA  
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC  
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA  
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAACTGGTGACCCCTCATCAGCCGGGACGACCTGAA  
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA  
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGCAGATGCAGCTGCAGAAGTG  
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCCTGCACAAGCC  
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGGCCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC  
GCTCAGCTACCTGGAGGCTTACAACCCCAAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG  
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTGCCCGACGGCAACAC  
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTGCCTTGCGCCCCCATGAGCGTGCCCCG  
TAACCGCATCGGGGTGGGGGTTCATCGATGGCCACATCTATGCCGTGCGCGGCTCCACGGCTGCATCCACCACAA  
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCAATGCTGACACGAAGGATCGGGGT  
GGGCGTGGCTGTCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA  
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGCAGGCGTCTG  
CGTCTGCACAACCTGTATCTATGCTGCTGGGGGCTATGATGGTCAAGACCAGCTGAACAGCGTGGAGCGCTACGA  
TGTGGAACAGAGACGTGGACTTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA  
GGGGAGAATCTACGTCCTTGGAGGCTATGATGGTCAACGTTCTTGGACAGTGTGGAGTGTACGACCCAGATAC  
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG  
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTGAGGCACTTTTGTCTTGGGCAAAAATACAGTCCAATGG  
GGAGTATCATTGTTTTTGTACAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA  
GGGAGGCCAGGATGCCTCAGTGTTAAATGACATCTCAAAAGAAGTCCAAAGCGGGAATCATGTGCCCTCAGCG  
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCC  
CCAAACCCCTTGCCCGGGTAATAGGCCTGGGTCCCACTACCCATGCCGGCAGCTGTACCATGTGATTTATTCT  
TGGATACCTGGGAGGGGGCCAATGGGGGCCTCAGGGGGAGGGCCCCCTCTGGAAATGTGGTTCCAGGGATGGGCC  
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTGTGATAAGTAACCCCTGTAATTT  
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

380/5332  
**FIGURE 338**

AAGGGCCTGAAGGGGCTGTCGCGCTCCTGGCGGTGTGATAAGGAGGGCGGGGGAGGCCGCGGGAAGGCGTCGGG  
GTTTGAGGTCCCCGCCTGGCGACCCGGGATCGGGGCAGGAAAGGCGGCTGGGCGGGGAGAGGGCGGGGCGGGGCG  
TCTGGCTTGCCACGCCCACCGTCATCCGGGGTCCTGGCCCGCTAAGATGGCGATGGCTGCGGTAGCAGCGGCGG  
CGGCTGTTGCCTGGCCCCGTACCCTGGGGACGGGGGCGGAGTAGCGCCTTCCCCGGGCCCCGTGAACCGGCTGCG  
GGTCGCCCCTTGGGGGGCAGCGGCCGACGCCCCCACCTGGGCCCTCGGTCCGCCCTCCCGGCGCGTCCATGAAC  
CAGTGTGCGCCGGCCGCCGCGCAGTACCGGAGCAGCAGCCCCGAGGACGCGCGCCGCCGGCCCCGAGGCCCGCAGGC  
CGCGGGGTCCCAGAGGCCCAGACCCCAACGGCCTGGGGCCTTCCGGAGCCAGCGGCCCGCTCTTGCTCTCCCG  
GGGCTGGCCCGAGTGAGCCGGACGAAGTGGACAAGTTCAAGGCCAAGTTCCTGACAGCCTGGAACAACGTCAAGT  
ACGGTTGGGTGGTTAAAAGCCGGACCAGCTTTAGCAAGATCTCCAGCATCCACCTCTGTGGCCGCCGCTACCGTT  
TCGAGGGCGAGGGTGACATACAGCGTTTCCAGCGGGACTTTGTGTCCCGCCTGTGGCTCACATACCGCCGGGACT  
TCCCGCCCCCTTCTGGGGGCTGCCTGACCTCGGACTGTGGCTGGGGGTGCATGTTACGCAGCGGCCAGATGATGC  
TGGCACAGGGCCTTCTGCTGCATTTCTGCCCAGAGACTGGACATGGGCCGAGGGCATGGGCCCTGGGCCCCCTG  
AGCTGTGAGGGTCAGCCTCTCCAGCCGGTACCATGGGCCTGCCCGCTGGATGCCCCACGCTGGGCCCAGGGTG  
CCCCTGAGCTGGAGCAGGAACGCCGGCACCAGGAGATTGTGTCTGGTTTCGCCGACCACCCCGGGCCCCCTTTG  
GCCTACACCGGCTGGTGGAGCTTGGGCAGAGCTCAGGCAAGAAGGCAGGTGACTGGTATGGGCCATCGCTAGTGG  
CACACATCTCAGGAAAGCCGTGGAGAGCTGCTCCGACGTACCCGCTGGTGGTGTACGTTTCTCAGGACTGCA  
CAGTGTACAAGGCGGATGTGGCACGCCCTGGTGGCCAGGCCAGACCCACAGCCGAGTGGAAGTCTGTGGTCAATCC  
TGGTGGCCGTGCGACTGGGTGGCGAGACTCTCAACCCCGTGTATGTGCCCTGCGTGAAGGAACCTCCTGCGTTGCG  
AGCTGTGCCTGGGCATCATGGGTGGGAAACCGCGACACTCACTGTACTTTCATTGGCTACCAAGATGACTTCCTGC  
TGTACCTGGACCCTCACTACTGCCAGCCCACTGTGGATGTGAGCCAGGCCGACTTCCCCCTGGAGTCCTTCCACT  
GCACCTCGCCCCGCAAGATGGCCTTTGCCAAGATGGACCCAAGCTGTACCGTGGGCTTCTATGCTGGAGACAGGA  
AGGAGTTTGAGACACTCTGCTCAGAGCTGACCAGGGTCCTCAGCTCCTCCTCAGCCACAGAGCGGTACCCCATGT  
TCACCCCTGGCCGAGGGCCATGCTCAGGACCACAGCCTGGACGACCTCTGCTCCCAGCTCGCCCAGGCCACACTCC  
GGCTCCCTCGCACAGGGCGGCTCCTCAGGGCCAAACGCCCCAGCTCTGAGGACTTTGTGTTTTTATTAAAGGGAGG  
GGATGAGGGGAAAGATAACAACACTATTTATTTTTTTATTTATGTGATGTCGGGTGTGGGATCTTGAGCTCTGGCA  
GTGATGATGGTACTTCTGTTGTCAGCCCCCTCAAGCCCAGCTGCAACCAGTCTGGGGCCATTCAGCCAGGGACAG  
AGCCACAGAGCCCATACACCTGTCTCCACAGCGGGGCCCTCCTGGCAGGGTAGGGAAGGAGGACCCCGGGCA  
CCCCCTCAGGGCCTGACTCAGTACTGTAGTTTGCACTGGACGCCCGGGCCCTCCCTGTCCCAAAGCCCCCTTG  
GGGGAACCTGTGGCTGCTGGGGGCAATAAAGCTGTGTAACCTG

381/5332  
**FIGURE 339**

TTTTACAAAACGCTCTCCTTGTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA  
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGGCCCATGTACCTG  
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT  
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG  
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGTCTGCAGAAACGTGCCAAA  
ACCAGGCAGGAGAAGGCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTCCGAACCCA  
GATTCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCCTG  
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG  
GAGGGGGTCCACGGTCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA  
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGACTCAGCATCGGTCAAGACCTACCCACGC  
AGCATCGCGTCCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAGAAG  
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG  
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCT  
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA  
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACCTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG  
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCAGCCAGCCGAGGAAG  
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG  
CCCCTGTTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC  
ATCGACGACCTGCCCTGTGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC  
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTCAGAGCAGGAG  
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAGAAAGCGGCAGGTCTTCAAGTCACTC  
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG  
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCAGCACAGGAAGAGGAAGCCCTGTATACCC  
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT  
GGATGCGAGTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC  
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT  
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC  
AGGCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC  
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCAGCTACTCAGGAGGCT  
GGGGAAGGAAGATCACTTAAGGCCATGAGTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG  
GGCAACAAAGCAAGACCCTGTCTCTTG

382/5332  
**FIGURE 340**

GGAGGGAGGGTGAGTTAGGGGGAGACCCGGCCCCCAAGGGGCGGGCGCCGGGCAGGGCCCCGCGGGCGGGCCGAGG  
GTTGGGCCCCGGCTCCCAGCCCCCTCGCCGTCTCCGGCTGACAGGGGGAGGAGCCCCGCGGGAGGGCCGGGGTCTC  
GGGCTGGGGAGCCGGGACGGGAGAGCAGCGCAGCCGGGTGCACCGCGGCCGCGCCCCGGGAGGGCTGTTCCGGGCC  
AGCGCCCCGCGGCTGCTCCGCGCTGACAGCGCCGGGCTGGGGCGGGGCGGGGGGCTTTGCAGGCCGCCAGTGTCTG  
ACATGCTGCTGGAGGAGGTTTCGCGCCGGCGACCGGCTGAGTGGGGCGGCGGCCCGGGGCGACGTGCAGGAGGTGC  
GCCGCCTTCTGCACCGGGAGCTGGTGCATCCCCGACGCCCTCAACCGCTTCGGCAAGACGGCGCTGCAGGTCATGA  
TGTTTGGCAGCACCGCCATCGCCCTGGAGCTGCTGAAGCAAGGTGCCAGCCCCAATGTCCAGGACACCTCCGGTA  
CCAGTCCAGTCCATGACGCAGCCCGCACTGGATTCTTGACACCCTGAAGGTCCTAGTGGAGCACGGGGCTGATG  
TCAACGTGCCTGATGGCACCGGGGCACCTTCCAATCCATCTGGCAGTTCAAGAGGGTCACACTGCTGTGGTCAGCT  
TTCTGGCAGCTGAATCTGATCTCCATCGCAGGGACGCCAGGGGTCTCACACCCTTGGAGCTGGCACTGCAGAGAG  
GGGCTCAGGACCTCGTGGACATCCTGCAGGGCCACATGGTGGCCCCGCTGTGATCTGGGGTCACCCTCTCCAGCA  
AGAGAACCCCGTGGGGTTATGTATCAGAAGAGAGGGGAAGAAACACTTTCTCTTCTTGTCTCTCTGCCACTGC  
TGCAGTAGGGGAGGAGCACAGTTTGTGGCTTATAGGTGTTGGTTTTGGGGGTGTGAGTGTGTTGGGGGACGTTTCT  
CATTTGTTTTTCTCACTCCTTTTGGTGTGTTGGACAGAGAAGGGCTCCTGCAGGCCACAGCCACCTAAACGGTTC  
AGTTTCTTCTGCGCCTCAGGCTGCTGGGGCCTCAGACGAGACCCAAGGGCAGAGCATTAAAGAGTGAAGTCATGA  
CCTCCAGGGAGCCTAGAAGCTGGTGGCCTTGGCCGGCTGTGCTCAGAGACCTGAAGTGTGCACGTTGCTTCAGGC  
ATGGGGGGTGGGGGAGCGTCCCAAATCAATAAGAAGGTAGAATGAGTTATGAGTTATTATATTCTGTTGGAAG  
CTTGTTTTCCAGTCTCTTGTACAGCGTTTTAAAGAAATGGATTCTATTTATTATGCTTTATTGAAAAAATGTT  
GTAATAATTTAATGTTTTTACCCATTAAATTAAGACTTGTGCATGATC

383/5332  
**FIGURE 341**

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG  
GCCGCCACCATGTTCCGCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG  
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC  
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG  
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG  
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTCAICGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC  
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA  
CGGGTGCCACCCACTGTACCAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAA<sup>1</sup>CGAGGTCTTC  
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC  
ATCAAGCTCAAGGTGTTTCTGTCAAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGTCTTTCGAGCTC  
ACTGGCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT  
GACAACGACCGCACCATCTCCTTCATCCCGCTGATGGTGACTTTGAGCTCATGTACATACCGCCTCAGCACCCAG  
GTCAAGCCACTGATCTGGATTGAGTCTGTCAATTGAGAAGTTCTCCACAGCCGCGTGGAGATCATGGTCAAGGCC  
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC  
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTGAGTATTAAAGTCT  
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCAAGTGTGAAAAGGAAGAGGTGGAGGGC  
CGGCCCCCATCGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC  
ATTGAGAAAAGTGTTACCAGGCCCTGCCCTGGGTTCGCTACATACCCAGAGTGGCGATTACCAACTTCGTACC  
AGCTAGAAAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG  
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCCCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC  
TTCTCACCTCTTCCTTATTCCATAGGCTGGGAGAGAACTCTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCA  
TCCCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCTCTCGCGAGTGCCTTCTTGCAATTACCTG  
CCTTAGCGGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCAGAGGTCCCGCTGGCCCCCTCCTCTGAATTTT  
AGGATGTCATTAAAAAGATGAATCTA

384/5332  
**FIGURE 342**

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACCTTTCAAAGGACCC  
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTTCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA  
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG  
CAGAAGGGCACAAAAACGAGAACAAACCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT  
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT  
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTTCTGGCTTCAAGAACAATAAAGGAGTGGCT  
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCCGCT  
ATCCACGCCTACAAGGGTGTCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC  
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCTTAGAGGCGCGGCAACTCGCCATGCGCATATTT  
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTCATC  
ATCCTGCTTCGCTTCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGTGGGCTACGGA  
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC  
TTTCAGACGGATTTCCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT  
GAAGTCATTATCATCTTGCTGCTCATCTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC  
AGCAGGGCTGTGGGATACGTATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC  
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC  
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCCTCCTCAATGAGTCCCGCCAATGCCCAATGCC  
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC  
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTACGCTGGCCGGGGCCCTTTCCTCCTAC  
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGCGCTCAGGTAC  
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG  
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC  
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC  
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCTGGATAAAGTTACTGACTTC  
CTCTTCTGTTGGGCAAACCTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTCACCACCGTATC  
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCCTATACTGACGGTGATCGTTGGCTCCTAC  
TTGATTGCACACGGTTTCTTACGCGTCTATGGCATGTGTGTGGACACGCTGTTCTCTGCTTCTTGGAGGACCTG  
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAAC  
AAGAAGGCAGCGGAGTCCTGA

385/5332  
**FIGURE 343**

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC  
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAGAGATAAGGGGG  
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCCTGCGTAGTCACGTGACTTCGGCA  
CCTTTCCCTCCGCTTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTCGCGGTTTCCTTCGCCATCTGAC  
AACTTTTGCGCCTTCCCTTTGCCGTACTGGGAGTCTCCATCACGTGACGAGGGCACGCTCTGGTTTTCGCTAA  
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT  
TTTGGCCTGCGCGGCCCATCTTACGCCCCTGCGCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA  
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGGAGGTGGCTATGCTCACCC  
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC  
CCCTTGAGCCCCGGGACCGGCGCCAATGCGCGCCCCGGGTTCTTGGGTCTTTTCGTCCCGCAGACCTGCCTTGGTGT  
GGCGTCCCTGGGCCGTAGCTTCCGAAGGCTGCAGCCGACCTGGTCTGGGTCCTCTAGCCCGCTTCCCTTCCCC  
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTGGAAAA  
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT  
GCTTTGTCTTACAAGCGTGTTGTTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCGATGTACAATCTGTGCT  
TAATAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT  
CCGCTGTTGATTAGACGTTCCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT  
GTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTGAGGAGTTCGAGACCAGCCTGGCCAGCATG  
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCACCTA  
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA  
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC  
TGGCTGGGCGTGGTGGCTCACGCTTGTAAATCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTGAG  
GAGTTTGAGACCAGCCTGGCCAACATGGTGAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG  
GAGGGCGCCTGTAATCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA  
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA  
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA  
TCATTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCCTGCACTCCAGCCTGGGCGACAGAGCG  
AGACTCCGACTTCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAAGATGTGATTATGTGGCAGGGG  
GTAAGGGTTAAAAAGAAAACAAGAACAAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG  
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGAGCAAAGTTGAAAAGAAAAATCCTTTACTG  
TCTCTCCTTTTCTGAACCATTAATATGACTGTTTGCCAAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT  
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT  
TACATGACCTGTGACTGTATCATTAAGTCTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAACCACTCAGT  
CTTTGTTCAATGGTCAGCTTTTTCAGATACAAATCCACTGAGCCGGTGTACATCTAAATAAATCCTCCTGTTTCCC  
GT

386/5332  
**FIGURE 344**

GCGTCCAATGCGAATTTTTGTGAATGATGACCGCCATGTGATGGCAAAGCATTCTTCCGTTTATCCAACACAAGA  
GGAGCTGGAGGCGAGTCCAGAACATGGTGTCCCACACGGAGCGGGCGCTCAAAGCTGTGTCCGACTGGATAGACGA  
GCAGGAAAAAGGCTAGCAGCGAGCAGGCAGAGTCCGATAACATGGATGTGCCCCCAGAGGACGACAGTAAAGAAGG  
GGCTGGGGAAACAGAAGACGGAGCACATGACCAGAACCCCTGCGGGGAGTGATGCGGGTGGGCCTGGTGGCAAAGGG  
CCTCCTACTCAAGGGGACTTGGATCTGGAGCTGGTGTCTGTGTAAAGGAGAAGCCCACAACCGCCCTCCTGGA  
CAAGGTGGCCGACAACCTGGCCATCCAGCTTGTCTGTAAACAGAAGACAAGTACGAAATACTGCAATCTGTCTGA  
CGATGCTGCGATTGTGATAAAAAACAAAAAGAGCCTCCATTGTCCCTGACCATCCACCTGACATCCCCTGTTGT  
CAGAGAAGAAATGGAGAAAGTATTAGCTGGAGAAACGCTATCAGTCAACGACCCCCCGGACGTTCTGGACAGGCA  
GAAATGCCTTGCTGCCTTGGCGTCCCTCCGACACGCCAAGTGGTTCCAGGCCAGAGCCAACGGGCTGAAGTCTTG  
TGTCATTGTGATCCGGGTCTTGAGGGACCTGTGCACTCGCGTGCCACCTGGGGTCCCTCCGAGGCTGGCCTCT  
CGAGCTCCTGTGTGAGAAAATCCATTGGCACGGCCAACAGACCGATGGGTGCTGGCGAGGCCCTGCGGAGAGTGCT  
GGAGTGCCTGGCGTCCGGCATCTGTGATGCCAGATGGTTCTGGCATTATGACCCCTGTGAAAAAGAAGCCACTGA  
TGCTATTGGGCATCTAGACAGACAGCAACGGGAAGATATCACACAGAGTGCGCAGCAGCAGTGGGCTCGCTGC  
CTTCGGCCAGCTCCATAAAGTCCTAGGCATGGACCTCTGCCTTCCAAGATGCCCAAGAAACCAAAGAATGAAAA  
CCCAGTGGACTACACCGTTCAGATCCCACCAAGCACCACCTATGCCATTACGCCCATGAAACGCCCAATGGAGGA  
GGACGGGGAGGAGAAGTCGCCCAGCAAAAAGAAGAAGATTGAGAAGAAAGAGGAGAAGGCAGAGCCCCCCCCA  
GGCTATGAATGCCCTGATGCGGTGAACCAGCTGAAGCCAGGGCTGCAGTACAAGCTGGTGTCCAGACTGGGCC  
CGTCCATGCCCCCATCTTTACCATGTCTGTGGAGGTTGATGGCAATTCATTGAGGCCCTCTGGGCCCTCAAAAA  
GACGGCCAAGCTGCACGTGGCCGTTAAGGTGTTACAGGACATGGGCTTGCCGACGGGTGCTGAAGGCAGGGACTC  
GAGCAAGGGGGAGGACTCGGCTGAGGAGACCGAGGCGAAGCCAGCAGTGGTGGCCCCCTGCCCCAGTGGTAGAAGC  
TGTCTCCACCCCTAGTGCGGCCTTTCCTCAGATGCCACTGCCGAGCAGGGGCCGATCCTGACAAAGCACGGCAA  
GAACCCAGTCATGGAGCTGAACGAGAAGAGGCGTGGGCTCAAGTACGAGCTCATCTCCGAGACCGGGGGCAGCCA  
CGACAAGCGCTTCGTCATGGAGGTGCAAGTGGATGGACAGAAGTTCCAAGGTGCTGGTTCCAACAAAAGGTGGC  
GAAGGCCTACGCTGCTCTTGCTGCCCTAGAAAAGCTTTTCCCTGACACCCCTCTCGCCCTTGATGCCAACAAAA  
GAAGAGAGCCCCAGTACCCGTCAGAGGGGGACCGAAATTTGCTGCTAAGCCACATAACCCCTGGCTTCGGCATGGG  
AGGCCCCATGCACAACGAAGTGCCCCCACCCCCAACCTTCGAGGGCGGGGAAGAGGCGGGAGCATCCGGGGACG  
AGGGCGCGGGCGAGGATTTGGTGGCGCCAACCATGGAGGCTACATGAATGCCGGTGCTGGGTATGGAAGCTATGG  
GTACGGAGGCAACTCGGCGACAGCAGGCTACAGTCAGTTCTACAGCAACGGAGGGCATTTCTGGGAATGCCAGTGG  
CGGTGGCGGGCGGGGGCGGTGGTGGCTCCTCCGGCTATGGCTCCTACTACCAAGGTGACAACCTACAACCTACCGGT  
GCCCCCAAACACGCTGGGAAGAAGCAGCCGACGCGGGGGCCAGCAGAAGCCCTCCTACGGCTCGGGCTACAGTC  
CCACCAGGGCCAGCAGCAGTCCTACAACCAGAGCCCCCTACAGCAACTATGGCCCTCCACAGGGCAAGCAGAAAGG  
CTATAACCATGGACAAGGCAGCTACTCCTACTCGAATCCTACAACCTCTCCCGGGGGCGGGGGCGGATCCGACTA  
CAACTACGAGAGCAAATTTCAACTACAGTGGTAGTGGAGGCCGAAGCGGGCGGGAACAGCTACGGCTCAGGCGGGGC  
ATCCTACAACCCAGGGTACACGGGGGCTACGGCGGAGGTTCTGGGGGGCGGCTCCTCATACCAAGGCAAACAAGG  
AGGCTACTCACAGTCGAACATAACTCCCCGGGGTCCGGCCAGAATACTACAGTGGCCCTCCAGCTCCTACCAGTC  
CTCACAAGGCGGCTATGGCAGAAACGCAGACCACAGCATGAATAACAGTACAGATAAGCCCCCGGGGGCGGAG  
ATTTCTACCTTCTGCACTTACTCCCCATCAGAAGATCGAGTTTTATGCATCACAGTTAACATGTCAGCTGGCCCT  
CCAGGCCCCCGCCCCATCCCGTCCACGTTGCTGTGTCGTGAGGTGCAGCGGGTCACCCTGTGGCCCGTCTGTG  
ACCCATATTTAGCCGTGTTTGGGACTCCGTGTCTTCAATGGTTTGTAGTTGCCATTACAACCTTTGTCTGGGTAG  
AGTTTTTGAGTTTTTGAGTTTCAATATCCCTCTGTCTATTACACTTCGTGTTAGTGGTAACTCAGTTTGTCTTT  
AAATAGTTACAGAAGGATACGTCATTTGTTAATGCTTTTGTGAAGTGAGTTAAACGAGCTTTCTGTATTTTAAAT  
GCTTTAGTGTTCAGTTTTATAAGTGAAGATTTATTTTAAAAACAGTGGGAAAGAGTGGGGGGTTTCTTTTTA  
TGTCTGGGTCAATCAGGCAGTACATCTGAATTAAGCTGAATGTAGACAAATAAAGAAAAACAAAACCT



387/5332  
**FIGURE 345**

GTTAGAGCAGGAGGAGGTCCAGATACCAAGTGGCGCCTCCAGGAAAGGCTGGGAGAAGAGGTTGGCCTGGAGTAC  
 CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCTAACCCCTGATTTTGTATGGGATGTG  
 TTCATGTCTATCTCCTCTCCTGGACACATTAAGGGGTTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT  
 CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCCTGGCCCCACCTGCTAAATACCT  
 CCAAACCTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA  
 CGTTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCGCCCTGCTGCAGATACATGCGGC  
 ACAGCAGGCACGTGCCTGGAGAGAAACAGCTCCTGAGCACAGCACCCCTTGGAGCCCTCACCCCGCTCACGATCCTC  
 ACCAGTGCTGATGATGCCGTGCTGCTGCTGGCCTGAGACAGTATCCAGCTACAACAGGACGACACCGGGTTCAG  
 GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAACGCAGGTAGCCGACC  
 TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT  
 ATGCTTTGGGTGGACGGTCTCCTACATGTTTCAGTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC  
 ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAACCTGGGCA  
 CAGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG  
 TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGCAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG  
 GGCTTCATGAACTAGGATGAAAGGAGGCCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA  
 TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTGAGCCTTGAGGGTCGCCACCCACCTG  
 TGTGTTGCCCTCTGTCTCCTGGCAGGGAACATACACCCCTTGCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG  
 GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTGCAGCATAGTTGGGAGCTT  
 CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT  
 GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA  
 TGTGTT

388/5332  
**FIGURE 346**

GTCAAGATGGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC  
AGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTTCATGCCAGTG  
GGCAGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTGGCCGCATCTGCCTGGGCAAT  
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG  
CCTCATAATCTGCTAACGGACAGCGGCGGTTTCCAGATGGTGTCTGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG  
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGGAGAAATCCGTGCAGATCCAGAAT  
GCGCTGGGCTCGGACATCATATGCAGCTGGACGACGTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG  
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC  
GCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT  
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT  
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGGTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT  
GGATGTGACATGTTGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGGCCACTGGGAAC  
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGCACCTGCCCCACGTGCCAA  
AAGCACAGCCGCGCCTTCCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACCACCTCACGGTCCAC  
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG  
CGGGACTTCATGGGCGCCATGTACGGGGATCCACCCCTCTGTCCACCTGGGCCACTGACGCTCTGGCCTCTGTG  
GGAATCACACTGGGCTGACCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGCTGGAAGATACTGA  
AGGATTCCCTTTTTGAAAGGTTTTTTTTTATTGTAACCTT

389/5332  
**FIGURE 347A**

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGCGGGGAGCAACGGCTACAGACGCCGC  
GGGGCCAGGTGCTTGAGGGTCGGCGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCCGGGCGCCATGGG  
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCCTTCAGTCTCCATCGGCCAGAGCTG  
CCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACCTTCGT  
GGGCCGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCCTCTCATTCTGCAGCTCATCTTCTCAA  
AACAGAACATGCCGAGTTTTTGCACCTGCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA  
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC  
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT  
CGAGTACCAGATCAAGGACATGATCCTGCAGTTTATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTCAGCCCCG  
CAACATGGACCTGGCCAACCTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG  
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCAGCCAGGGACGTCTTGAGAGAACAAGTTGCTCCCGTT  
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT  
GGCAGCTGAGAGGAAGTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT  
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACCTACAGAG  
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTCGGCCCCGACGACCCACCCGAAAACCAA  
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAAGAAGGATCGAGGGCTCAGGAGATCAGGTGGA  
CACTCTGGAGCTCTCCGGGGGCGCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT  
GGAGTTTGAAGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT  
TTTCAACCCCGGACTTGGCATTCGAGGCCATTGTGAAAAAGCAGGTTCGTCAGCTGAAAGAGCCCTGTCTGAAATG  
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCCTACCCCGGTT  
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT  
GCTGATCGACATTGAGCAGTCCTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCAGCAGAG  
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGCTGGCTGAC  
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCTCTG  
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA  
GGGCTTCATGTCCAACAAGCACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA  
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGTCTACCC  
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA  
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA  
GACCATCATGCACCTCATGATCAACAATACGAAGGCCCTTATCCACCACGAGCTGCTGGCCTACCTATACTCCTC  
GGCAGACCAGAGCAGCTCATGGAGGAGTCGGCTGACCAGGCACAGCGCGGGACGACATGCTGCGCATGTACCA  
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCCTGT  
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATACACCC  
CCCTGGCCGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCCCCTGATTCTGTTCCTCGTGGGGGAGCAGC  
CTCCTTCTCGGCGCCCCAATCCCATCCCGGCTGGACCCCAGAGCGTGTTCGCAACAGTGACCTCTTCCCAGC  
CCCGCTCAGATCCCATCTCGGCCAGTTCCGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC  
TGCTGCGCCCAGCCGGCCACCATATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGCGTG  
CTCTCGGGGGGGCCTACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG  
ACCAGGCTCCAGTGGGCAGCCCTGGCCTCTTCCCTAACGCTGGCCCCGGTCCAGGGCCGGCCCCCTGTGCCTGGC  
TGGACACCGCACTGCGCAAAGGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA  
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT  
ACCAAGGTCTTCTTGGGGTGGGAAAGCCCATGTAGGGCAGGCCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA  
TCCCCAGGCCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC  
AGTGGGCTCGGTAGTGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGGCATATTAACCACACAGCCT  
GAGCCTGGCCAGCCTCGGCTGCCAGAGGTGCCCTTGTAGGCCCGGAGCCGTTGGCCCGGGCGGCCCTTGCCCT  
ATTCTCTCCTCCTCCTCCTCCTGGGTCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG  
TCTTGGGGGCTCTCAGTCTCCGCCCATGCCTCCTGATGGGTGGGCCAGGGCGGCCCTCTCTGAGGAGACCT  
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCTGCACTCTGTATTCTATTAATAAACTAAAATAAAGGA

WO 2004/060270

10/531147  
PCT/US2003/029126

390/5332  
**FIGURE 347B**

AGACGCTGCTGGTG

391/5332  
**FIGURE 348**

CTGCCAATGAGCTCCGCCGAGTAGCACCGGGGCAGGGCTAGCGCTTAAAGGAGCCGCGACCCCTTTGCAGACCAG  
AGGGTGACCCGGATGATGGCGGGCCGGCGCGGCCCTAGCCCTGGCCTTGTGGCTACTAATGCCACCAGTGGAGGTG  
GGAGGGGCGGGGCCCCGCCAATCCAGGACGGTGAGTTCACGTTCCCTGTTGCCGGCGGGGAGGAAGCAGTGTTTC  
TACCAGTCCGCGCCGGCCAACGCAAGCCTCGAGACCGAATACCAGGTGATCGGAGGTGCTGGACTGGACGTGGAC  
TTCACGCTGGAGAGCCCTCAGGGCGTGCTGTTGGTCAGCGAGTCCCGCAAGGCTGATGGGGTACACACGGTGGAG  
CCAACGGAGGGCGGGGACTACAAGCTGTGCTTTGACAACCTCCTTCAGCACCATCTCCGAGAAGCTGGTGTTCTTT  
GAACTGATCTTTGACAGCCTCCAGGATGACGAGGAGGTGCAAGGATGGGCAGAGGCTGTGGAGCCCGAGGAGATG  
CTGGATGTTAAATGGAGGACATCAAGGAGTCCATTGAGACCATGCGGACCCGGCTGGAGCGCAGCATCCAGATG  
CTCACGCTACTGCGGGCCTTCGAGGCACGTGACCGCAACCTGCAAGAGGGCAACTTGGAGCGGGTCAACTTCTGG  
TCAGCTGTCAACGTGGCGGTGCTGCTGCTGGTGGCTGTGCTGCAGGTCTGCACGCTCAAGCGCTTCTTCCAGGAC  
AAGCGCCCGGTGCCCACGTAGCCCCCTGCCATGGAAGGAAGAACGGGACAAAGGAGGGGCAGCAGGGTGTGTGCAT  
ATGAGACTTGGGGGTCCCTCCCAATTTTAGTTTTCTGCCAAAACGGGAGTGTGCAGTCAGGGCCTGCGGTCTGG  
CCCCATGAGTCTCCTTCCGTCTCAGCGGGCAGGGAACACCTCTGGCTTGTAGAAGGGACGGCTCAGTGGCTGCA  
CCGACGGTCCTGGAATCTCACATGGTGGGCACTGCAGCGTTGGAACGTGAGCCTCGGATTTCTTGGCCCCCTCTA  
CTGTAAATGTGCCTTAGCCTAAGCCTCCCATCCTGTGTTAGCGTTGCCTGGTGCGGGGCAGGGCCTAACAAGGAA  
ACCTGGGCCCCCTCAAGCCAGGTTGAGGTCTGGTAACAGAATGCCAGGAAGGGGGCCTGGAAGACCACCTGCCCCG  
GCCCTCTCCTGCAGGGGCCCCACACAGGCATGAGGGATGGCCCGGCCAAAGTCTAGGCAGAAGCCTCCTATAAC  
AAAGGGTGGTGTGGCCTGGGCATTGGAG

392/5332  
**FIGURE 349**

[illegible]

393/5332  
**FIGURE 350**

GGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGAGCCCCAGCC  
ACGCCGGCCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCCTGAACGACCATGGCATCGGCCGACGAGCTGAC  
CTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCCAGATGCAGCCACCACCAGCAGAAGCGATCA  
GCTGACCCCAACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGAGGTGGAGGA  
GGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTTCAGCTACTA  
TCAGAGCTTCTTTGACGTGGACACCTCACAGGTCCTGGACCGGATCAAAGGCTCACTGCTGCCCCGGCCTGGCCA  
CAACTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCACGTTGGCCTT  
TGTCTGGCCGTCACCTGGCAACCTGACGCTGGTGCTGGCCAGAGGAGGGACCCCTCCATCCACTACAGCCCCCA  
GTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCTGGCCCTGTGGGGCTT  
CCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCCTGGAGACTGTGTGCATCTACGGCTA  
CTCCCTCTTTGTCTTCATCCCCATGGTGGTCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCTCTTTGGGGC  
GCTGGCCCTGGGCCTGTCAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACACCAGGCTGGT  
GGCCACAGTGCTGCTGTCCGTGGTCTGTGCTCCACGCCCTCTGGCCATGGGCTGTAAGTTGTACTTCTTTCCA  
GTCGCTGCCTCCGGAGAACGTGGCTCCTCCACCCCAAATCACATCTCTGCCCTCAAACATCGCGCTGTCCCCTAC  
CTTGCCGAGTCCCTGGCCCCCTCCTAGGAAGGCCCGGGTCCACAGGCAACACCTAAGTGGACCAACCCCTCTG  
CCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTCCAGACTTTT  
CTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTACAGAGAATTTATATAAAGGCGGGCGAGGGGCAGC  
CGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCATATCCCCCCCCGGGCCACCTGCTTTCCCTCCTATGGCTCC  
CCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGCACACACGGC  
GGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAACCTGCCTGTGCT  
GCAACACGTTTCTCATTTATTTTTCTTTCTTTTTCTTTTTCTTTTTTGGAGGGAGAGGTCCCTGCAAGGT  
CCCTTCCCGGGCAGGGGAGGGATGGAATGCCGTACAGTAGTAGGGACTGGAGCGTCTACAAGGATGGAGGGGA  
GCTACTCAGGCCTAACGTTAGCTACAAGGAAAAAGGACGCCTTCCGTGACAGATCCTTGAGGTGTCTGTCTGCTGC  
CCCAAGTGGCCGGCAGTGGCCTTCCCTCCGGGCCCAAGGCCTGCAGCCACCTGCTCTAACTCTTGAGTGGGGGGG  
CGGGGGGGGACCTGCAGGGGCTCGGGGACAGGACAGCAGCAAGAGGCAGGGGCCGAGGACGGAGGCCTTCCCGAC  
AGTGGGGTGGGTTGTACATTCAAGTGTGAGGTGAACCCTTTGGTGGGGAGGGGGCCCTGAAGCCTCGGCGGGGC  
CACCCCTCCCCGCGGCGCCTCTGAGTCTAGGGAGAGGGGCTGCTGGCTCGGCCCGGCCGGCCTGGCTTCACAGAG  
GGTCTGCGGATTGACACTGGTTCTTTTCATAAAAAAATAAAATTAATAAAAGCA

394/5332  
**FIGURE 351**

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG  
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG  
GGAGTGTGGGCGCGGGCTGGGGTCTTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG  
GCGGAGGCTAGGGCCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGGCGGCCTGCTTCACG  
CTGGCGCCCAGCGAGGGTGCCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCTCCTGCTGCTGGCGCCGGCC  
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC  
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC  
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTGGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG  
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG  
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCAGCAT  
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC  
CACTCGCTGGTGCAGGCGGAGGCCCCGAGATGAAACCCTGAGGCCCCCGAGTCTTGGCAAACCTGCTTGCCTGGGG  
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT  
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG  
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA  
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA  
AGGCCACTTAGATTTTCTTTTCAAGTTTGGGTTGTGGCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA  
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC  
AAAAAGAATAATAATAGTAATTAATAAAATTTGAGCTG



395/5332  
**FIGURE 352A**

GCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGAAGGGGGGGCGGTGGCCGAGGCGGGC  
GGGCGCGCGCGCGAGGCTTCCCCCTCGTTTGGCGGGCGGGCGGGCTTCTTTGTTTCGTGAAGAGAAGCGAGACGCC  
CATTCTGCCCCCGCCCCGCGCGGAGGGGGCGGGGAGGCGCCGGGAAGTCGACGGCGCGGGCGGCTCCTGCAGGA  
GGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTGGGCGGAACCTCTCGGCCAGGTCCTT  
CCCCGGGCCCCTGGCCCTTCCCCCTGGAGCCATGCTGGGCCCTAGCCCCGGGTCCCTCGCCGGGCTCCGCCCACAGCA  
TGATGGGGCCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACCCAGGGGCCCTGGAGGGTACCCTCAGG  
ACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGCATGTCGGACGACCCGCGCTACAACC  
AGATGAAAGGAATGGGGATGCGGTCAGGGGGCCATGCTGGGATGGGGCCCCCGCCAGCCCCATGGACCAGCACT  
CCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCAGTTCCAGCCAGTGGCCCCGTCTTCGG  
GGCCCCAGATGTCTTCCGGGCCAGGAGGTGCCCCGCTGGATGGTGCTGACCCCCAGGCCTTGGGGCAGCAGAACC  
GGGGCCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAGATCATGGCCTACAAGATGCTGGCCA  
GGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGGCCGATGCCCGGGATGCAGCAGCAGA  
TGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGCCCTGGCCCTGGCCCCGGCCCGGGTC  
CCGGCCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCCCAACATGCCTCCCCAGGACCCTCGG  
GCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCCTGGCCTGAAGGACCCATGGCGAATG  
CTGCTGCCCCCAGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACGGGGCCGCCCTTCCCCCGCGCCCCCTG  
CCGTCCCACCCGCGCCTCGCCCCGTGATGCCACCGCAGACCCAGTCCCCCGGGCAGCCGGCCAGCCCGCGCCCA  
TGGTGCCACTGCACCAGAAGCAGAGCCGCATACCCCCATCCAGAAGCCGCGGGGCCCTCGACCCTGTGGAGATCC  
TGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTCAGGAACCTGAAAACCTTCCCGGGTCCC  
TGGCCGGGGATTGCGAACCAAAAGCGACCATTGAGCTCAAGGCCCTCAGGCTGCTGAACTCCAGAGGCAGCTGC  
GCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCCCTCAATGCTAAGGCCTACAAGCGCA  
GCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAGCAGCAGAAGATCGAGCAGGAGCGCA  
AGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCCAAGGATTTCAAGGAATATCACAGAT  
CCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCATGCCAACACGGAGCGGGAGCAGAAGA  
AAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAAGATGAGGAGGGGTACCGCAAGCTCA  
TCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACAGCAGACAGACGAGTACGTGGCTAACCTCACGGAGC  
TGGTGCGGCAGCACAAGGCTGCCCAGGTGCGCAAGGAGAAAAAGAAAAAGAAAAAGAAAGAGGCAGAAAATG  
CAGAAGGACAGACGCCTGCCATTGGGCGGATGGCGAGCCTCTGGACGAGACCAGCCAGATGAGCGACCTCCCGG  
TGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCCCCCAAAGCCGGGCAGCTGGAGGCCT  
GGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAAGAAAGTGGCTCAGAAGAAGAGGAAG  
AGGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCCACCCTGCCCGTGGAGGAGAAGAAGAAGATTCCAG  
ATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAGAATGCCAAGCAAGATGTCGATGATG  
AATATGGCGTGTCCCAGGCCCTTGACGTGGCCTGCAGTCTACTATGCCGTGGCCCATGCTGTCACTGAGAGAG  
TGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTTCAAACAGTACCAGATCAAAGGTTTGGAGTGGCTGGTGT  
CCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTGGGGAAGACCATCCAGACCATCGCGC  
TCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCTCATCATCGTGCCTCTCTCAACGCTGTCCA  
ACTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCTTACAAGGGATCCCCAGCAGCAAGAC  
GGGCCTTTGTCCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACGACGTACGAGTACATCATCAAAGACA  
AGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGTCACCGCATGAAGAACCACCACTGCA  
AGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGTGCTGACGGGCACACCGCTGCAGAACA  
AGCTTCCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTCAAGAGCTGCAGCACCTTCGAGCAGT  
GGTTTAACGCACCCCTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAGGAGGAACCATTTCTCATCATCCGGC  
GTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAAGTCGAGGCCAGTTGCCGAAAAGG  
TGGAGTACGTCAAGTGCAGATGTCTGCGCTGCAGCGAGTGCTCTACCGCCACATGCAGGCCAAGGGCGTGC  
TGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGGCGCACCAAGACCCTGATGAACACCATCATGCAGC  
TGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCCCTTTTCCGAGCACTTGGGGTTCACTG  
GCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAGCTTCTTGATAGAATTCTTCCCAAAC  
TCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTCATGACCATCATGGAAGATTACTTTG

396/5332  
**FIGURE 352B**

CGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAGGACCGGGGCGATGCTGCTGAAAACCT  
TCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCTGGGGGGCTCGGCCTGAACCTCCAGT  
CGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGACCTGCAAGCGCAGGACCGAGCCACC  
GCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAACAGCGTGAGGAGAGAAGATCCTAGCTG  
CAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATGTTTCGACCAGAAGTCTCCAGCCATG  
AGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAGAGCAGACACTGCAGCACGGGCAGCG  
GCAGTGCCAGCTTCGCCCACACTGCCCCCTCCGCCAGCGGGCGTCAACCCCGACTTGAGGAGGCCACCTCTAAAGG  
AGGAAGACGAGGTGCCCCGACGACGAGACCGTCAACCAGATGATCGCCCGGCACGAGGAGGAGTTTGATCTGTTCA  
TGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGGAAGCCGCGCCTCATGGAGGAGGACG  
AGCTCCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACCTGTGAGGAGGAGGAGGAGAAGATGT  
TCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTGACGGAGAAGCAGTGGCTCAAGGCCA  
TCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAATCATCACGGAAGCGCAAGCGAGACA  
GCGACGCCGGCTCCTCCACCCCGACACCAGCACCCGCAGCCGCGACAAGGACGACGAGAGCAAGAAGCAGAAGA  
AGCGCGGGCGGGCCGCTGCCGAGAACTCTCCCTAACCCACCCAACCTCACCAAGAAGATGAAGAAGATTGTGG  
ATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAGGTCTTCATCCAGCTGCCCTCGCGAA  
AGGAGCTGCCCAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAGAAGATAAAGGAGCGCATTTCGCAACC  
ACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGCCAGAACGCACAGACCTTCAACCTGG  
AGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCAGTCGGTCTTACCAGCGTGCGGCAGAAAATCGAGAAGG  
AGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAGGAAGGCTCCGAATCCGAATCTCGGT  
CCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGGCTGAAGGGCGGCCGCGCGGCCGA  
GCCGAGGGTCCCGAGCCAAGCCGGTTCGTGAGTGACGATGACAGTGAGGAGGAACAAGAGGAGGACCGCTCAGGAA  
GTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCCCCTCGTTCCAGAGCTGAGATGGCAT  
AGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTAAACTGTATAAAACAAAAGAATCTTC  
CATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTCCTGGCATCAGTAGCATCTGTAACAG  
CATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACACGATACCTGTTTTCTTTTCCGTTG  
CTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGATGCATGTGCGTCACCGTCCACTCCT  
CCTACTGTATTTTATTGGACAGGTGAGACTCGCCGGGGGCCGCGAGGGTATGTCAGTGTCACTGGATGTCAA  
CAGTAATAAATTAAACCAACAACAAAACGC

397/5332  
**FIGURE 353A**

GCCCCGAGTGCAATCGCGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCTGTATCCGGGTCTGGGACACTGC  
CTGGCAGAGGCTGCGAGCATGATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCTGCCTTGCTCCTCGCCGCGGCG  
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG  
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA  
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCCCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC  
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGTGCCACGATGGG  
AAGTGCATCTCTCGGCAGTTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCTGCCCG  
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGCCTGCGACAAC  
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCCGCAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT  
AGCCCTGTCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC  
CCCGACTGCAAGGACAAATCTGACGAGGAAAACCTGCGCTGTGGCCACCTGTGCGCCTGACGAATTCCAGTGCTCT  
GATGGAAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC  
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA  
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGGGGACCAACGAATGCTTG  
GACAACAACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC  
CAGCTGGTGGCCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCAGACCTGCAGCCAGCTCTGCGTG  
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACAGGAAGGCCTGCAAGGCT  
GTGGGCTCCATCGCCTACCTCTTCTTACCAACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC  
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCTGCTGTGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT  
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCCACGGCGTCTCTTCTATGACACCGTCATC  
AGCAGAGACATCCAGGCCCCGACGGGCTGGCTGTGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC  
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTTCAGGGAGAACGGCTCCAAGCCA  
AGGGCCATCGTGGTGGATCCTGTTTCATGGCTTCATGTACTGGACTGACTGGGGAACCTCCCGCCAAGATCAAGAAA  
GGGGGCTGAATGGTGTGGACATCTACTCGTGGTGAAGTGAACATTTCAGTGGCCCAATGGCATCACCTTAGAT  
CTCCTCAGTGGCCGCTCTACTGGGTTGACTCCAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC  
CGGAAGACCATCTTGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGCCGCTCTTTGAGGACAAAGTATTT  
TGGACAGATATCATCAACGAAGCCATTTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTGGCTGAA  
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAAGTGGTGTGAGAGG  
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGAGATCAACCCCCACTCGCCCAAGTTT  
ACCTGCGCCTGCCCCGACGGCATGCTGCTGGCCAGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG  
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTCAGTCCACAGCCGTAAGGACACAGCACACAACCACCCGA  
CCTGTTCCCGACACCTCCCGGCTGCCCTGGGGCCACCCCTGGGCTCACACGGTGGAGATAGTGACAATGTCTCAC  
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC  
CCCATCGTGCTCCTCGTCTTCTTCTGCTGGGGGCTCTCCTTCTATGGAAGAACTGGCGGCTTAAGAATCAAC  
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCAGGACGGC  
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT  
GCCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCTGCCAG  
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGGCCATGCAATGGCTGGGTTG  
GGATTTTGGTTTCTTCTTCTCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGGACCAGGATGACACCTCATT  
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT  
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCTGGCCCTGCCTCAT  
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA  
GCCAGGTAGCCTTTGCCCTGTACCCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC  
TTAAGCCAGGAAAGGGATTTCATGGCGTCGGAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACCTCATT  
CACCAAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTCAACCTTAATATTTATTAAGTGCCTGAGAC  
ACCCGGTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACCAGCCTGGTGCCCAT  
CCTCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACTTCTCAGTTTCAGAGTTGTACACTGTGTACA  
TTTGGCATTGTGTTATTATTTTGCAGTGTCTTCTGTCTGTGTTGGGATGGGATCCCAGGCCAGGGAAAGCC

398/5332  
**FIGURE 353B**

CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA  
CTGCCATTGTCGTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC  
CCAATCTTGTCGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC  
CCAGCACTTTGGGAGGCCGAGGCCGGGTGGATCATGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC  
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC  
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT  
CTGGCCTGGGCGACAGAGCGGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAACCATGCATGGTGCATCAGCAG  
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG  
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA  
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG  
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC  
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT  
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTAGAAAATACAACTATAAAAA  
AATAAATAAATCCTCCAGTCTGGATCGTTTGACCGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA  
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTCAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC  
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG  
CGTCCCTGTACAGATAGTGGGGATTTTTTGTATGTTTGCACTTTGTATATTGGTTGAACTGTTATCACTTATA  
TATATATATATACACACATATATATAAAATCTATTTATTTTGCAAACCCTGGTTGCTGTATTTGTTCACTGACT  
ATTCTCGGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA  
CTGGACTGTGTGCAACGCTTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT  
CACTTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

399/5332  
**FIGURE 354**

CCGCGACATAGAGGAGGTGAGCCAGGGGCTGCTCAGCCTGCTGGGCGCCAACCGCGCGGAGGCGCAGCAGCGACG  
GCTGCTGGGGCGCCACGAGCAGGTGGTGGAGCGGCTGCTGGAAACGCAAGACGGTGCCGAGAAGCAGCTGCGAGA  
GATCCTCACCATGGAGAAGGAAGTGGCCCAGAGCCTTCTCAATGCGAAGGAGCAGGTGCACCAGGGAGGCGTGGA  
GCTGCAGCAGCTGGAAGCTGGGCTTCAGGAGGCTGGGGAGGAGGACACCCGTCTGAAGGCCAGCCTCCTTCAGCT  
CACCAGAGAGCTGGAAGAGCTCAAGGAGATTGAGGCGGATCTGGAGCGACAGGAGAAGGAGGTGACGAGGACAC  
GACAGTCACAATCCCCTCGGCCGTGTACGTGGCTCAACTTTACCACCAAGTTAGTAAAATTGAGTGGGATTATGA  
GTGTGAGCCAGGGATGGTCAAAGGCATCCATCATGGCCCCAGTGTGGCCCAGCCCATCCACCTGGACAGCACCCA  
GCTCTCCAGGAAATTCATCAGCGACTACCTCTGGAGTCTGGTGGACACCGAGTGGTAGCCAGGAGCCTCGTGGCT  
GCGTCTTGCACCCAGCGGGCATCTGCCGTGGTCAGATCCATTTCAAATGAAATGTGGGGACATAGATCTTTTTTT  
TTTTTTT

400/5332  
**FIGURE 355**

ATTACTCCCCTGGTGACGGGAGGGTTGTTTGAGATTCAGGAGGAGATCAGCAAGTTGAGGGTACATTTACCATC  
AGAGCAGGACAGACGGCCCTGATGCTGGCCGTCAGCCACGGGCGGGTGGACGTTGTCAAAGCCCTGCTGGCCTGT  
GAGGCAGATGTCAACGTGCAAGATGATGACGGCTCCACGGCCCTCATGTGCGCCTGTGAGCACGGCCACAAGGAG  
ATCGCGGGGCTGCTGCTGGCCGTGCCAGCTGTGACATCTCACTCACAGATCGCGATGGGAGCACAGCTCTGATG  
GTGGCCTTGGACGCAGGGCAGAGTGAGATTGCGTCCATGCTGTATTCCCGCATGAACATCAAGTGCTCGTTTGCC  
CCAATGTCAGATGACGAGAGCCCTACATCATCTCGGCAGAAGAGTAGCCGTGAGGGAGGCGGGGACCAGCCAGA  
CCGGGAGCAAACCGTCCCTTGTCCCCGTCTCCTCCCTGTTCCCGTTCCTCCCTGGGCCACCCCACTCACACTCCC  
CAAGGCCCACGGCTCAAAGGCAAGCGAGCTCTCCCTCTGCTTCCCTGGGGGAGCCCCGACGGCCACAGGACTCCA  
GCTCCAAGTGGGTTTTCTTGGCTCCCCTGTTCAAAGTGGCCACAGCGCAGACCGAAGCAAAATTCTTGTATACAT  
TGGCGCCAGGGCTGATGCTGGGGTGTGGGTTTTATGAAGAACATTGAGAACAATCAGCTGGTAATTATGGATGGA  
GGAAGAGGGAGAGGAAAAAATATTGTATTTTTGAATCATTGTTGCAGGAGGGGTGGGAATCTTAGGATTTGTT  
GCCAGATTTGAAAGTCACTGGAAC TTGCATATTTTCATTTTAATCCTAAGTGTATTACGCACCAGTTGGGGTTC  
ACCCTTCATCCCCACATTTAATTGTCTGATATAGAATAGTGTGTGTCCACTGCCCCGCTAGACGGCTTTCTTA  
GGGAATTTTCTTCTGGTTGTTTACAAGACAGATTCTGTCTTGTACCCGGGACAGAAACTCAGTCTTTTCA  
CCCTCATTGAGATGAAGGGACTCAGGACAGGCTCTGTGACTTACAGGGACCCAATCAATTCACAATGAGAAATTA  
CCGGCCAGGCGTGGTGACTCACGTCTGTAATCCCAGCACTTTGGGAGGGCAAGGCAAGAGCTTGAGCTTGAGCCT  
AGACGTTAAAGACCAGCCTGGGCAACACAGCAAGACCCATCTCTAC

401/5332  
FIGURE 356A

GACGCGAGGACCATGGCTGCCTCCGAGCGCCGCGCCTTCGCGCACAAAGATCAACAGGACGGTGGCCGCAGAGGTG  
CGGAAGCAGGTGTCCCGGGAACGCAGTGGCTCCCCCACTCCAGCAGGCGCTGCAGCAGCTCCCTGGGGGTCCCA  
CTGACTGAAGTTGTGAGCCCTGGACTTTGAGGATGTACTTCTGAGCCGGCCACCAGATGCTGAGCCCGGGCCC  
CTCAGGGACCTGGTAGAATTCCCAGCTGATGACTTGGAGCTGCTGCTGCAGCCCCGGGAATGCCGGACCACGGAG  
CCCGGGATCCCCAAGGATGAAAACTGGATGCCCAGGTGAGGGCCGCGGTGGAGATGTATATTGAGGACTGGGTC  
ATTGTCCACAGAAGGTATCAGTACCTGAGTGCAGCATACAGCCCCGTCAACACAGACACACAGCGGGAGCGACAG  
AAGGGCCTCCCCCGCCAGGTCTTTGAGCAGGATGCTTCTGGAGACGAGAGGTCCGGCCCTGAGGACTCGAATGAC  
TCCCGGCGTGGCTCGGGCTCCCCGGAAGACACCCCTCGAAGCAGTGGTGCCTCTAGCATCTTCGACCTGAGGAAC  
CTGGCAGCTGACTCATTGCTGCCCTCTCTGCTAGAGCGGGCGGCCCCAGAAGATGTGGACCGGCGCAATGAAACC  
CTTCGACGGCAGCACCCGGCCCCCGGCCCTGCTCACCTCTACCCGGCACCTGACGAGGATGAAGCCGTGGAACGC  
TGTAGCCGCCCAGAGCCACCCCGGAGCACTTTGGACAAAGGATCTTGGTCAAGTGTCTGTGCTCAAGTTTCGAG  
ATTGAAATTGAGCCCATCTTTGGGATCTTGGCTCTGTATGATGTGCGGGAGAAAAAGAAGATCTCGGAGAACTTC  
TACTTCGACCTGAACCTCGGACTCCATGAAGGGGCTGCTTCGGGCTCATGGCACCCACCCTGCCATCTCCACCCTG  
GCCCCGCTCTGCCATCTTCTCTGTGACCTACCCCTCACCTGACATCTTCTGGTCAATCAAGTTGGAGAAGGTGCTT  
CAGCAAGGGGACATCAGTGAGTGTGTGAGCCTTACATGGTGTGAAAGAAGTGGACACAGCCAAGAACAAGAG  
AAGCTAGAGAAGCTGCGCCTGGCGGCCGAGCAGTTCTGCACCCGCTGGGCGCTACCGCATGCCCTTCGCCTGG  
ACGGCCGTGCACCTGGCCAACATCGTGAGCAGCGCTGGGCAGCTGGACCGGGACTCTGACTCGGAGGGCGAGCGC  
CGGCCAGCCTGGACAGACCGCCGCGCTCGGGGGCCCCAGGACCGGGCGAGTAGTGGGACGAGCGCCTGCAGCTTC  
TCTGGCTTCCGTCCAGCCACGCTAACTGTCACAACTTCTTTAAGCAGGAGGCTGAGCGACTCAGTGACGAGGAC  
CTCTTCAAGTTCTGGCTGACATGAGGCGCCCGTCTGCCCTGCTGCGGCGACTACGTCTGTGACTGCCAGCTC  
AAGATCGACATTTCTCCGGCTCTGAAATCCCCACTTCTGCCTCTCCCTGAGCTGCTTCATATCAAGCCCTAC  
CCGGACCCCAGGGGCGGGCCACCAAGGAGATTCTGGAGTTCCCCGCGCGAAGTCTATGCCCCCATAACCAGC  
TACAGGAACCTGCTGTACGTGTACCCGCACAGCCTCAACTTCAGCAGCCGCCAGGGCTCCGTGCGCAACCTTGCT  
GTGCGAGTGCAGTACATGACAGGCGAGGACCCAGCCAGGCTCTGCCGGTCACTTTGGCAAGTCCAGCTGCAGT  
GAATTTACCCGCGAGGCCTTACACCGGTGGTCTACCATAACAAGTCCCCGAGTTCTACGAGGAGTTCAAGCTG  
CATCTTCCAGCCTGCGTGACAGAGAACCATCACCTGCTGTTACCTTCTACCATGTGAGCTGCCAGCCCCGGCCG  
GGCACTGCCCTGGAGACACCCGTGGGCTTTACTTGGATCCCACTGCTGCAGCACGGGCGCCTGAGGACCGGCCCC  
TTCTGTCTCCAGTGTCTGTGGACCAGCCGCGCCAGCTATTCCGTGCTCACACCCGATGTGGCGCTTCCGGGC  
ATGCGCTGGGTGGACGGTCAACAAGGGCGTGTTCAGTGTGGAGCTCACAGCCGTGTCTCTGTGCACCCCCAGGAC  
CCCTACCTGGACAAATTCTTACCCTGGTGCACGTCTGGAGGAGGGAGCCTTCCCATTCCGGCTCAAGGACACT  
GTGCTGAGCGAGGGCAACGTGGAGCAGGAGCTGCGGGCCAGTCTTGACGACTGCGCCTGGCCAGCCCCGAACCC  
CTTGTGGCCTTCTCCACACGTGCTGGACAAGCTCGTGCGTCTGGTCACTAGGCCCCGATCATCAGTGGCCAG  
ATTGTGAACCTGGGCGGTGGAGCCTTTGAAGCAATGGCCCATGTAGTCAGCCTTGTTTACCCGGAGCCTGGAGGCA  
GCCCAGGATGCCCGCGGTCACTGCCCACAGCTGGCTGCCCTACGTCCACTACGCCTTTTCGCCTTCTTGGCACTGAG  
CCCAGCCTCCCGGATGGGGCCCCCTCCAGTGACAGTGCAGGCTGCCACACTGGCCCCGTGGCTCTGGTTCGCCCCGCA  
AGCCTCTACCTGGCGCGTTCCAAGAGCATCAGCAGCAGCAACCTGACCTCGCCGTGGCCCCCTGGCTCTGTGGAT  
GACGAGGTTTCCCGCATCCTGGCCAGCAAGCTGCTTACGAGGAGCTGGCTCTGCAGTGGGTGGTCAAGCAGCAGT  
GCCGTACGCGAGGCCATCCTCCAGCACGCCTGGTTCTTCTTCCAGCTCATGGTGAAGAGTATGGCGCTGCACCTG  
CTGCTTGGCCAGCGACTAGACACACCCCGCAAGCTGCGCTTCCCCGGACGCTTCTTGGACGACATCACTGCCTTG  
GTGGGCTCTGTGGGCTGGAGGTATACCCGTGTCCACAAGGATGTGGAGCTGGCCGAGCACCTCAACGCCAGC  
CTGGCTTTCTTCTCAGTGACCTTCTGTCCCTGGTGGACCGGGCTTTGTCTTACGCTGGTCCGGGCCCCACTAC  
AAGCAGGTGGCCACGCGGCTCCAGTCTGCTCCCTAATCCAGCAGCCCTGCTGACCCTGCGCATGGAATTCACCCGC  
ATCCTGTGCAGCCACGAGCACTACGTGACCCTCAACCTCCCCCTGCTGCCCCCTGTACCTCCAGCCTCGCCCTCC  
CCCTCTGTGTCTTCCACCACCTCCCAGAGCTCCACCTTCTCCAGCCAAGCCCCGGACCCCCAAGGTGACCAGCATG  
TTCGAACCTGAGTGGACCATTCGGGACGAGCACTTCTAGCTGGGCTCTGCTGACGGAGCTGGCACTGGCCCTC  
GAACCTGAGGCTGAAGGGGCATTCCTGTTGCACAAGAAGGCCATCAGTGCTGTGCACAGCCTGCTATGTGGCCAT  
GACACTGACCCCCGCTACGCCGAGGCCACTGTGAAGGCTCGTGTGGCCGAGCTGTACCTGCCACTGCTATCGATT  
GCACGGGATACCTTGCCACGGCTGCATGACTTTGCTGAGGGGCCAGGTGACGGTCAAGACTGGCCTCAATGCTT

402/5332  
**FIGURE 356B**

GACTCAGACACAGAAGGCGAAGGGGACATTGCGGGTACCATCAACCCCTCTGTGGCCATGGCCATTGCTGGTGGC  
CCCCTAGCCCCTGGCTCCCGGGCCAGCATCTCCAGGGGCCACCAACGGCTTCTCGCGCAGGCTGTGCCCTCTCT  
GCTGAGTCAAGCCGGACCTTGCTGGCGTGTGTGCTGTGGGTGCTGAAAAACACCGAGCCGGCGCTCCTGCAGCGC  
TGGGCCACTGACCTGACACTCCCCAGCTGGGACGCTCTGTTGGATTTGCTGTACCTTTGCCTAGCTGCCTTTGAG  
TACAAGGGGAAAAAGGCCTTTGAACGCATCAACAGCCTCACATTCAAAAAATCTCTGGATATGAAGGCGCGGCTA  
GAGGAAGCCATTCTGGGTACCATCGGAGCTCGACAAGAAATGGTTTCGGCGAAGTCGTGAGAGGAGCCCGTTTGGG  
AATCCGGAGAATGTGCGCTGGCGGAAGAGCGTCACACACTGGAAGCAAACCTCAGACCGCGTGGACAAGACCAAG  
GATGAAATGGAACACGAGGCCTTGGTGGAAGGGAACCTGGCAACCGAGGCAAGCCTAGTGGTTCTGGACACACTG  
GAGATCATCGTGCAGACGGTGATGCTTTCAGAAGCCCGGGAGAGCGTCTTGGGGGCAGTGCTGAAGGTTGTGCTG  
TACAGCCTGGGCAGTGCCCGAGAGTGCCCTCTTCTTGACGATGGCCTGGCCACCCAGAGGGCCCTTGTGTCCAAG  
TTCCCGGAGCTGCTGTTTCGAGGAGGACACGGAGCTGTGTGCCGACCTGTGCTGAGGCTCCTACGACACTGTGGC  
AGCCGCATCAGCACCATCCGCACGCACGCCAGCGCTCGCTGTACCTGCTCATGCGACAGAACTTCGAGATCGGC  
CACAACTTTGCCCGTGTGAAGATGCAGGTCACCATGTCTCTCTCGTCCCTGGTGGGGACGACGCAGAACTTCAGT  
GAAGAGCACCTGCGACGTTCACTCAAACCATCCTCACCTATGCTGAGGAGGACATGGGGCTGCGGGACAGCACC  
TTCGACAGAGCAGGTCCAGGACCTGATGTTCAACCTGCACATGATCCTGACGGACACGGTGAAGATGAAGGAACAC  
CAGGAGGACCCTGAGATGCTCATCGACCTCATGTACAGAATTGCCCGGGGCTACCAGGGCTCACCAGGACCTTCGG  
CTGACCTGGTTGCAGAACATGGCCGGGAAGCACGCGGAGCTGGGCAACCACGCCGAGGCCGCCAGTGCGATGGTG  
CACGCGGCCGCCCTCGTGGCTGAGTACCTCGCCCTGCTCGAGGACCACGCCACCTGCCCGTGGGCTGCGTTTCC  
TTCCAGAACATCTCATCAACGTGCTAGAGGAGTCCGCCATCTCCGACGACATCCTGTGCGCCGACGAGGAGGGC  
TTCTGCTCCGGGAAGCACTTCACTGAGCTGGGGCTGGTAGGGTTGCTGGAACAGGCAGCCGGCTACTTCACCATG  
GGCGGGCTCTACGAGGCGGTGAATGAGGTCTACAAGAACCTCATCCCCATCCTGGAAGCCACCGTGACTACAAG  
AAGCTGGCCGCGGTGCACGGCAAACCTGCAGGAGGCCTTCACCAAGATCATGCACCAGAGTTCCGGCTGGGAGCGC  
GTGTTCCGGGACGTATTTCCGCGTGGGCTTCTACGGCGCCCACTTCGGTGACCTGGATGAGCAGGAGTTTGTGTAC  
AAGGAGCCATCGATCACGAAGCTGGCAGAGATCTCACACCGGCTGGAGGAGTTCTACACGGAGAGATTGGCGAC  
GACGTCGTTGAGATTATCAAAGACTCTAACCCCTGTGGACAAGTCCAAGCTTGACTCACAAAAGGCCTACATCCAG  
ATCACGTATGTGGAACCGTACTTTGATACCTACGAGCTCAAGGACCGGGTGACCTACTTTGACCGCAACTATGGG  
CTTCGCACATTCTGTTCTGCACGCCGTTACAGCCGGATGGGCGCGCACACGGGGAGCTGCCCGAGCAACACAAG  
CGTAAGACGCTGCTCAGCACCGACCACGCCTTCCCCCTACATCAAGACTCGCATCCGTGTGTGCCACCGGGAGGAG  
ACGGTGCTGACGCCAGTGGAGGTGGCCATCGAGGACATGCAGAAGAAGACACGGGAGCTGGCCTTTGCCACCGAG  
CAGGACCCACCAGATGCTAAGATGCTACAGATGGTGCTTCAGGGCTCTGTAGGGCCACCGTGAACAGGGTCCC  
CTGGAGGTGGCCCAGGTGTTTTTAGCAGAGATCCCGGAAGACCCCAAGCTCTTCCGGCATCACAACAAATTGCGG  
CTCTGCTTCAAGGACTTCTGCAAGAAATGTGAGGATGCGCTGCGGAAAAATAAGGCCCTGATTGGGCCGGACCAG  
AAGGAGTACCACCGTGAGCTGGAGCGCAACTACTGCCGCCTGCGGGAGGCTCTGCAGCCCCTGCTTACCCAGCGC  
CTGCCCCAGCTGATGGCACCCACCCACCCGGCCTCAGGAACCTCCTTGAACAGAGCAAGTTTCCGAAAGGCAGAC  
CTCTGAGCCCCACAAGGACCAAGCTGTACCTAGAGGAACCAGCACCCGGGCCTCAGCTGTCTGTGCTGCGAGGGG  
AGTCTGCCCTGGTGCCCACTGGGCTGTGGGGTGACCACACTGTACTTGGGGCTGGGCCCTCTGCCCTGTGTCC  
CATCTGTGTGCACTGATGCTTCTCCCTTTTTTAATTTAAATGGTTTTTATAAGC



403/5332  
**FIGURE 357**

GTGAGGTACCAGATTCAGCCCATTGGCCCCGACGCCTCTGTTCTCGGAATCCGGGTGCTGCGGATTGAGGTCCC  
GGTTCCTAACGGTGGGATCGGTGTCCTCGGGATGAGATTTGGCGTTTCCTCGGGGCCTTGGTGGGATCGGTGTCC  
TCAGGATGAGATTTAGGGTTTCCTCGGGGCTTTCGGGATCTTCACCTAATATCCGGACTGCAAGATGGAGGAAGG  
CGGGAACCTAGGAGGCCTGATTAAAGATGGTCCATCTACTGGTCTTGTCAGGTGCCTGGGGCATGCAAATGTGGGT  
GACCTTCGTCTCAGGCTTCCTGCTTTTCCGAAGCCTTCCCCGACATACCTTCGGACTAGTGCAGAGCAAATCTT  
CCCCCTTCTACTTCCACATCTCCATGGGCTGTGCCTTCATCAACCTCTGCATCTTGGCTTCACAGCATGCTTGGGC  
TCAGCTCACATTCTGGGAGGCCAGCCAGCTTTACCTGCTGTTCTTGAGCCTTACGCTGGCCACTGTCAACGCCCG  
CTGGCTGGAACCCCGCACACAGCTGCCATGTGGGCCCTGCAAACCGTGGAGAAGGAGCGAGGCCTGGGTGGGGA  
GGTACCAGGCAGCCACCAGGGTCCCGATCCCTACCGCCAGCTGCGAGAGAAGGACCCCAAGTACAGTGCTCTCCG  
CCAGAATTTCTTCCGCTACCATGGGCTGTCCTCTCTTTGCAATCTGGGCTGCGTCCTGAGCAATGGGCTCTGTCT  
CGCTGGCCTTGCCCTGGAATAAGGAGCCTCTAGCATGGGCCCTGCATGCTAATAAATGCTTCTTCAG

404/5332  
**FIGURE 358**

AGCGTTTTAATACGATGGTGTCCCCGCGGGATCAAACCTTCAGCGTCACAGCTGAGGACTGGCTTCGTGGTCCCTG  
ATGGGAGAGCATGAACAGGTGGTATGTGAAGCCCTTGGAGACCAGCTCTTCCAAAGTCAAAGCCAAGACCATTGT  
GATGATTCCCGACTCCCAGAAGCTCCTGCGATGTGAACTTGAGTCACTCAAGAGCCAGTTACAGGCCCAGACCAA  
GGCTTTCGAGTTCCTGAACCACTCAGTGACCATGTTGGAGAAGGAGAGCTGCTTGCAGCAAATCAAGATTTCAGCA  
GCTTGAAGAGGTGCTGAGCCCCACAGGCCGCCAGGGAGAGAAGGAGGAGCACAAAGTGGGGCATGGAGCAGGGCCG  
GCAGGAGCTGTATGGGGCCCTGACCCAAGGCCTTCAGGGGCTGGAGAAGACCCTGCGTGACAGTGAGGAGATGCA  
GCGGGCCCGCACCACTCGCTGCCTGCAGCTGCTGGCCCAGGAGATCCGGGACAGCAAGAAGTTCCTGTGGGAGGA  
GCTGGAAC TGGTGC GGGAGGAGGTGACCTTCATCTATCAGAAGCTCCAAGCGCAGGAGGATGAGATCTCAGAGAA  
CTTGGTGAACATTTCAGAAAAATGCAGAAAACGCAGGTGAAATGCCGCAAAATCCTGACCAAGATGAAGCAGCAGGG  
TCATGAGACAGCCGCCTGTCCGGAGACTGAAGAGATACCGCAGGGAGCCAGTGGCTGCTGGAAGGATGACCTCCA  
GAAGGAAC TGA TGTATATATGGTCTGCTGTGCACGTGCTGCAGAACTCCATAGACAGCCTCACTTTGTGCTCGGG  
GGCCTGTCCCAAGGCCTCGAGCCTAAGAGGGCCACAAGGGGCACCAAGTGCCTGAGCCCTCCACTCCCCTCCTGGGA  
CTCTGACTCCGACTGTGACCAGGACCTCTCCCAGCCACCTTTTCAGCAAGAGCGGCCGCTCCTTCCCACCCGCTTG  
AGCAGCCGGGACTGCTCTCCCTGAAGACCCCTCCAGAGAGAAAATAAACTAGCCCAGACCCTCCTCTAGCCCCGA  
CTGTTAGTCTTGCTGCTTCCTGTGCCTAGGAATCCCCCTGCCCTCCTAGTTTACCCCTCATTGTTGGGGGGGAGG  
GGTGTAGAGACCCAGGGGTCATTCGGGATGTGTGGGCTTGGAATCAGGGGACATCTGAAGCCAGATTTAATATA  
TGACAAGGCAAGGAGTCATTCTGTCCAGACACGAGCAGCCAGACAGACTTCCACACTGGCCACAGAGCCTTCCTT  
TCTGGGGGGCCCTGGCGAATGGGGAACTGAGGCCCAGAGAGGGAGAGGCGCGGCCCAGGGACATACTCTGAAGC  
CCCTCCCTCCTATTACCCTCGGAGCCCCGCCACCCAGGGTCCCTCCTCTACTTCCATTCTTGGTTCCTTCC  
TACAATCGATGCTAACACGCCCCGCCTCCAAGATCACGGAGGCCCCGCC

405/5332  
**FIGURE 359**

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC  
TGTCCATCCCGCCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG  
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCTCGCCTGCCTGGGCTCAGTTTCCACATCTGCACAATGGG  
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGATGCAGCCTGGGGGAAGCC  
ATAGGGCGCTTTCACAGGCCTGGCCTTACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT  
CCCCTGCTTTGTCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA  
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC  
TGCCAGCCGAGTGCTCCTGCTCTTGCTACGCACTGGTCACTGCCGGGCCACCCCTACGATCCTGCTGGGAGA  
GCTGGCGCGTGCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC  
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC  
GACCATCTTCGCCAACGCGGGGAGGTGGTGACCGGCAATCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA  
CTACACGGCCCTGGGCTGCCCTGCCACCTTCTCCGGATCGGCCAGGTCCCGACCGCTTTGTCACTGACCAGGGTGC  
CTGCGCTGGCAGTCCAGCCTCGTGGCCGCCGCGCGCCGCGCCTTCCCTGCAAGGATGCGGCCCTCTGCGCCTA  
CGCGGTACCTACACAGCGATGTACGTGACTCTCGTGTTCCGCGTGAAGGGCTCCCGCCTGGTCAAACCTCGCT  
CTGCTGGCCTTGCTGTGCCCAGCCTTCCTGGTGGGCGTGGTCCGCGTGCCGAGTACCGAAACCACTGGTCGGA  
CGTGCTGGCTGGCTTCCTGACAGGGGCGGCCATCGCCACCTTTTTGGTCACTGCGTTGTGCATAACTTTAGAG  
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA  
AAAGAACCCGAGGTCTGCAGGCCGATTTCGACACCGGCACGGCTCACCCCATCCAAGTCGCAGAAGTGCGCCCGC  
CGTGGCCACCTTGATCCCCAGCTGTGTCTCTCCAGGGCCCCAGCCATGTGTTGCTCGCCCCGTGTGCCCGTCTCT  
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCCTGCCCTACCCCTGCCAGCGCCACCCCCAGCCAGGGCCCCCTCG  
CCTTCCCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCACGCCCTG  
CTGCGGGACCTGTACACCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTCAGCCCTTACCTGTTT  
GCCAGCCGTGACCACCTGCTGTGAGGCCCCGACCACCCACCCAGAATCTGCCCAGTCCCCACTTCTTCCCTGCCAC  
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA  
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG  
CGCACTTGCCCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTTGGCCATTGCCTGGCTAATGAGAACC  
CCTGGTTCTCAGAATTTTAACCAAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT  
CCTGCAAGAGGGCAACTCCAGCCAGTGTTACGCGACTGAACAGCCAATAGGAGCCCTTGTTTTCCAGAATTTCTA  
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA  
GGTCATTGTTTTGTATTGAGTCTTCTCTCAGAATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATG  
GCAGGGTCCTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCCTTCCACCTCTACCCACTCTCT  
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGTTTTGGGGTTCAGGGTGCTGTGTCTCCCCTTGCC  
TGTGCCAGGTCAATCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTCTTCTTTTTCTTGGAAC  
CTGCCCCGTCTTTCACACTGCCCCCATGCCTCAGCCTCATAAGATGTGCCATCATGGGGGGCATGGGTGGAG  
CAGAGGGGCTCCCTCACCCCGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC  
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

406/5332  
**FIGURE 360**

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT  
GTGCCGGGGGCGGGGGACGGAGGGGCAGGAGCCCTGGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG  
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCTCTGCTCGCTGGGGCCGCTGGGCGCCCCGCTAACCT  
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTCACCGA  
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCGGGCAACTACAGCTTCTC  
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCCTT  
CTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTTCGTGCCCCCTAGAGTTGCGCGTCACAGCAGCTCCGGCGC  
TCCGCGATATCACCGTGTATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT  
GGCTGACGAGAGCGGCCACGTAGTGTGCGCTGGCTCCCGCCGCTGAGACACCCATGACGTCTCACATCCGCTA  
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG  
TGTGCTGAGCAACCTGCGGGGCGGACGCGCTACACCTTCGCCGTCCGCGCGGTATGGCTGAGCCGAGCTTCGG  
CGGCTTCTGGAGCGCCTGGTCGGAGCCTGTGTGCTGCTGACGCCTAGCGACCTGGACCCCCCTCATCCTGACGCT  
CTCCCTCATCCTCGTGGTCACTCCTGGTGTGCTGACCGTGTCTCGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA  
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACCTTCCA  
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGCACCCCCCTTCACGGAGGACCCACCTGCTTC  
CCTGGAAGTCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT  
GCTGGAGCCAGTGGGCAGTGAAGCATGCCCAGGATACCTATCTGGTGTGCTGGACAAATGGTTGCTGCCCCGGAACCC  
GCCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC  
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA  
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAGTACCT  
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCCAGGGAGCCCAAGGGGGCTT  
ATCCGATGGCCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT  
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA  
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC  
TCAGGAAACCACAACCTTGCAGTATTTTAAATATGTATAGTTTTTTT

429/5332  
**FIGURE 381**

CAGAGGCCCCAGAGTGGCTCGCCTGGAGTCTCTGTGGCGCGGTTTCCTGTACCTGCCTTGGGATCCGGAGGGAGGA  
AGCTGGGACACCCGGGAGTCAGGAAATGGACTCGGTGGCTTTTGAGGATGTAGATGTGAACCTTCACCAGGAGGA  
GTGGGCTTTTGCTAGATCCTTCCCAGAAGAATCTCTACAGAGATGTGATGTGGGAAACCATGAGGAATCTGGCCTC  
TATAGGGAAAAAATGGAAGGACCAGAACATTAAAGATCACTACAAACACCGAGGGAGAAATCTAAGAAGTCATAT  
GTTAGAAAGACTCTATCAAACCTAAGGATGGTAGTCAGCGTGGAGGAATTTTGTAGCCAGTTTGCAAATCAGAATCT  
GAGCAAGAAAAATCCCTGGAGTGAACTCTGTGAAAGCATTGTATATGGAGAAGTCAGCATGGGTGAGTCATCCCT  
TAATAGACACATCAAAGATCACAGTGGACATGAACCAAAGGAATATCAGGAATATGGAGAGAAGCCAGATACACG  
TAACCAGTGTGGAAACCCCTTCAGTTCTCAACCTCCTTTTCGAACACATGAGATAATTCACACTGGAGAGAACT  
CTATGATTGTAAGGAATGTGGAAAAACCTTCTTTCTCTCAAAAGAATTAGAAGACACATCATCACACACAGTGG  
ATATACACCATATAAATGTAAGGTGTGTGGGAAAGCTTTTGATTATCCCAGTAGATTTTGAACACATGAAAGAAG  
TCACACTGGAGAGAAACCCCTATGAATGTCAGGAATGTGGGAAAGCCTTCACTTGTATCACAAGTGTTCGAAGACA  
CATGATAAAGCACACTGGAGATGGACCTTATAAATGTAAGGTATGTGGGAAACCCCTTTCATTCTCTGAGTTCATT  
TCAAGTGCATGAAAGAATTCACACTGGAGAAAAACCCCTTAAATGTAAGCAATGTGGTAAAGCCTTCAGTTGTTC  
CCCAACCTTACGAATACATGAAAGAACCCATACTGGAGAGAAACCTTATGAATGCAAGCAGTGTGGGAAGGCCCTT  
CAGTTATCTCCCCCTCCCTTCGACTACATGAAAGAATTCACACTGGTGAGAAACCCCTTCGTATGTAAACAATGTGG  
TAAAGCCTTTAGATCTGCCAGTACCTTTCAAATACATGAAAGGACTCACACTGGAGAAAAACCTTATGAATGTAA  
GGAATGTGGGGAAGCATTTCAGTTGTATCCCAAGTATGCGAAGACACATGATAAACATACTGGAGAAGGACCTTA  
TAAATGTAAGGTATGTGGGAAACCCCTTTCATTCTCTGAGTCCATTTCGAATACATGAAAGAAGTCACTGGAGA  
GAAACCTTATGTATGTAAACATTGTGGTAAAGCCTTTCGTTTCTTCAACATCAATTCGAATACATGAAAGAAGTCA  
TACTGGAGAGAAACCCCTATGAGTGTAAAGCAATGTGGGAAAGCCTTCAGTTATCTCAACTCCTTTCGAACACATGA  
AATGATTCACACTGGTGAGAAACCCCTTGAATGTAAGCGATGTGGTAAAGCCTTTAGATCTTCTAGTTCCTTTTCG  
ACTACATGAAAGGACTCACACTGGACAGAAACCCCTATCATTGCAAGGAATGTGGGAAAGCCTTATCTTGCCGTGC  
CAGCTTTCAGAGACACATGTTAACACATGCTGAAGATGGACCACCTTATAAATGCATGTGGGAAAGCCTTTAATG  
CTCTGGGTTTCATGTCAGATACATTAAATACTCACTGAAGAGAAGCCCTATGAATGTAAGTAACGTGGGAAAGCA  
TGAAATTCTGTCAGTGCCTTTTTTAATACATGAAAGAATTCTAGAGAGAAGCCATATACATGTAAGTAACATGGG  
AAAGCTTTCAATCATTTTAGTTCCTTTCAAATACATGAAAGAAGTCACTCATGGAGAAAACCAAACAATGCTTTT  
TGGAAGGAACCCATATTTGAGAGAAACCCCTGGGTAAAGGGTGTAGGAAAGGTTTTGTCATCACACAACCCGTGC  
ACACATGAATGTGTAGTGGAGAGAACCTTGGTAAATGTAAAGAGTGTGGGAGAGCCTTTAGTCATTTTAGTTCCA  
CTTGAAGCCATGAAAGAACACACAAAAGAGAAAGCTCTTGAATATAAGCAATGTCCACACGTTTTTAGCCAGCCC  
ACATGCTTTCAACAACATGTAAGAAATGTACCCTGGATCAAAACACTATAAATGTGAAACTACAAGGAAGGTTTT  
CCATTATACTTTTAAAGTCATTTGAGGGCTCTGGCTCTGTGGCTTTGTGGGTTAAAGTACTTGTCTGGCAAACAG  
GAGATGCTGGATTTCAATCCCAGCAGGGCCTCACTAGTTGAGGTATTGAATTTGAACAGATGTTTTGGCTCTGGC  
TGGGTGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGAGGATCACTTGAGGTCAGGAGT  
TTGAGACCAGTGTGCAAAACATAGCAAGACCTCATCTC

407/5332  
**FIGURE 361**

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC  
TCGGCTCTGGCACC GCCCCACTCCTGCCTCTCCCAACATGGCGACCCCTGAGTCTCCGTTCCCGGTGCGGAACGT  
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGTCAGCAGGAACCGCGGCTGCTGGACAAGAGGG  
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCTGTAAGACACAGCGCATCTCCCGCTGTAGGCTTCTCTCCC  
ACAGAACCCGTTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG  
GCCGTGGAGGTCAAGAGGCCCCGGGGCTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTTACC  
TGCCTGGACGGTTTCGGCCACCATCCCATTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC  
GAGCCAGGCACGGCTGCCTGTCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCCTGTATATCCCC  
TCCAACCGGGTCAACGATGGTGTGTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCTATCTGTGAG  
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGCGCGGAGGTCAACCGCGAAGGGTTCC  
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG  
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG  
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG  
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG  
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG  
ACGCCACCTCTTTCTACGACCGCGTCTGGGCGGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCACCGACC  
TTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCACAGAGG  
AGGAGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG  
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTACCCCCGACGCCGCCAGCCCTGCTGAGGAAGACAAAATGC  
CGCCCTACGACGAGCAGACGCAGGCCTTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC  
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTACTTTGGCCCCAACGGGG  
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCTCTGCCCTTCAAGC  
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC  
ACGACAAGTTTCACTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC  
GCCTCCTGTGCGGGAAGAGACCATGGTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGA  
TGACGCCAGCCGCTGCCCGGAGCCACCGCTGAAGCACCCACCGAAGACGACCATGACGAGCTCTAGCTGGATG  
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA  
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCATGTTCCCTGCTTTTTTGTGTTTTTGTGTTTTTGTGAGGTGGAG  
TCTCACTCTTTGGCCCAGGCTGGAGTGCACTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA  
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTTAGTAG  
AGATGGGGTTTACCATGTTGGCCTGGATGGTCTCGAATCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC  
AAAGTGCTGGGATTACAGGCATGAGCCACCACCCGGCCATCTCCTGCCTTTTTTTTTTGGATGGAGTTTAC  
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT  
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCACCTCAGCCTC  
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC  
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCCCTGCAGTGCCGTCCACCCGCCCCCTCTGGGCTGCCTGTGGCTC  
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCCAGGCGGGGCTGGTCC  
ACATTCCCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGGCCCCCACCTTGGTGACT  
CGCCCCACCACCCCAAGCCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA  
ATACAATAAATGTGATCCCCACCC

408/5332  
**FIGURE 362**

CACAAAAAAGACAAAAAAGAAAATATTTTGGCAGGTTATGTTTACCAACTGGGGCGGGGGTGGGGGG  
GGCCCAGGGAGCAGGGCTTAGGGGCTAGCAGCCCACGGGGCCACACAGAGAAACAACCACGCAGACAGTCACACC  
ACGGGGACACACGGACAGACGCAGACGGACACAGCGACATGCCCCAGACACGTTAAGGGACTGGTTGGCCAACT  
CAGACACGTGGACAGGGATAGACAGAAAGAGACAGAAGCTGGGGCTACGTCCATGTGGACACAGACCACAGATGT  
GGGCACACGAATCCATCCACCTGTCCACGTGCACACGTGAATGTAGCGATAGATATTTGGACATCAAATTTGGAC  
ACCAGGTCACGGAGAAACACAAACACCACCCAGGAACACGCAGACATATGCCCATAGCATCCCACAGGCCCAGGC  
AGGAGGTCCCACCCCAGACCTGCCCCAGACGCTCCCTCACCTCTCGGCCCCCTCGCCCTGGCCCCCAGGTTCT  
CTGCAGAGATCTCTCCTGGACCCCCAGCGGTCTCCTTGGCGCCCACGAACACAGGCGTGCACACGCAGCGCACAT  
GCATTGAGACACACGATACCTCGTTCCACCTTGGCGTCACGGTGGGCTGGAGGCAGCCCCCCCCCACAACACT  
TGAGGCCAAAGGACACCCCTGTCCCCGGGGCTCAGCCTCCCCCTGGGCCGAGGCCTTGGCCACACAGCTGAGGG  
AGAGGCCCAGCCCTGAGCCTCCCCACCAGGACTGGGCCTCCCCGGCAGCAAGACCCCGGCACTGCCCGCCAGGC  
CCAGGGTGGGGTGGATGGGCCCCAAGGCCCAGCCCCACACTCCTTTCCCGTCCACTTGTACCTACCTATCCCCCT  
TTCGGTTTGTGGGTTTTTCGTCTTTCCAGATTGCAGTGGACACAGCCCCGATCTCGAGCCCCGGCCCCGGCT  
TCTGTCTGGACATTGCATCGCCCCTAGTTTTCTTTTAAAAAATAATTCACAGAAGCCACAGGCCGGAG  
CCCCTGGGAGCCCTCGCACCGCTCCCCACCCCACTCAGCGCCCCATCGGAACTGAGAATTGAAAACCCCGAC  
TTTAGCTATAGTTAAGTTGCCTTCCCCGGTGTCCCCACGTTTGGTGTCTGGCTATGGCGCCCCATCTGACTGT  
CCAGCTCTCTCCCCACCCCTCCCGGTGTTGTTATTAAACGTCTGTGGAGCTTCTGCTGCAAGGAACAAAAA  
GAAAAAATCAAAAAAGCGACAAAAAACACAAACAGAAGAGGAAAAAAGCAACAAAAAAGAAAACACACAG  
AAGAGATTTAAAAAAGGAAAAAAGACATAAACTGGCACCAGTTAACTTTCTTGTACTTTTTTG  
CTGAATTTAGCTTCTTGTAGTTTTAACTTATTGCTATGTTAACTATTTATCTCCTCGTTGCCCTGTAAGGACAT  
CCGTGTATAITTTCTGTTACTTTCATCCGGTTTGCAAGTTAAAGGAACGACAATGTTCTCTTTGTTTCTTAAGTTT  
TGCCGAGACATGGTTATGCCTAATTTATTTATAAAGGGGAAGTGAATCATTAAGTAATAATAATTATTAATA  
ACAGTAATGGTAGCCGAGTGGCACGCGGGGGCGTGTGCTCTGCGGGACAGTCCCCACGGCCAGCGACGTCCAGGT  
CACCAATGGGATTCTTTTGTCTTGTCTTGAGAATTTTTTTCAGTCCTATTTAGCTGGTGAAATCCCTAGCTTGT  
TCTTGATACACGAACCTATTTATCTCGTGGTTTTAAGTCTCCTGCCCTCTCTCCTCTCCCCCTGCAGCAGGGC  
AGGGACCCCTCTCCCCCTGCTGTCTTGGGGCTCTCTCCCCCTCGGCCCTCTGCATTCGGGAACACGCACGTCCGC  
GTGGGAAGCTTGCAGCAGGGCGTCCGAGCAATAAGGGCTGGGTTTGTCCCCACCCCTGGGGGGGGCCAGGCTCCA  
GAGAGGGGGCACCTCCCCACACACCCCCCCCCACCGAGGCCTAGGCCCTGCCACCCCCAAGACTGGGAGGGGA  
CTTCTTTTCTAAAACACAAACTCAGCCCAGCCAGGCCCTCCCTGGAGGCCAGCCCCCTCCCGCAGGGGGCC  
AGGCCGGGGCTCCCAGGCGAGGGGGACTTGGGGCTTCCACGTCCCTGGGGGGCAGGGGGCCAGGCCAGGGGGGAGG  
GGGCTCAGCCCCTCCACCCCTCCCTTCATCCTGTTATTTATTGGAAGGTTTCAAAACACGACAGAGTCCATGTT  
GGAGGTGATAAAAACTGTAAAAAAGACAAAAAAGACAAAAAAGACAAAAAAGACAAAAAAGACAAAAAAGAC

AGAGCGCGGAGCGCGCAGCGCGGGGCCGGAGGGGAGGGAGGGTGGGCGAGGGGAGAGGACTTGAACACACGCG  
 ACCGGACAGGACCGACCGAGGGGCGGCGGCGAAAGGCAGAGCGCCGCGATCTCTGTGCGGAAGCGCAACCTCCCC  
 GGGCCCCGCGGGGCGCGCAGGGGGCGTCTCTCAACCCCGCGCCCGCTCCCTCTTTCCATCCCCTGCCGCCCGCAG  
 GCCACCCCGGGGCCCGGCCATCCGCGCGCGCATCCCCGGGTTCTGGGCGCGTCCCTGGCCCTCGAGGGAGCCGCCG  
 CCTTCATCGCCACATCTGCAGCGGCCGACACAGAGGCCGCCCGGGCGGGACCCCAGCGTGAGCATCGGGCGCCCC  
 CCTAGGAGTGCACCACCCCGGAGCCCCCCTCAACACGGACCGCGCCCGCCGGGCACACAAGAATGTTCACTCAG  
 ATACTGGGGGCCATGGAGTCTCAGGTGGGGGGGGGCCCGCGCCGGCCCGGCCCTGCCAACGGGCCACTCCTTGGT  
 ACAATGGAGCCACTGACGACAGCAAGACCAACCTCATCGTCAACTACCTGCCCCAGAACATGACCCAGGATGAG  
 TTCAAGAGTCTCTTCGGCAGCATTGGCGACATCGAGTCTGCAAGTTGGTTCTGGGACAAGATCACAGGGCAGAGC  
 CTTGGCTACGGGTTTGTGAACTATTCTGACCCCAATGATGCAGACAAAGCCATCAACACCCTCAACGGCCTCAA  
 TTACAGACGAAGACCATCAAGGTGTCTATGCCAGACCCAGTTCAGCATCCATCCGGGATGCTAACCTGTACGTC  
 AGCGGGCTCCCCAAGACCATGAGCCAGAAAGAGATGGAGCAGCTCTTCTCCAGTACGGCCGCATCATCACGTCC  
 CGCATCCTGGTGGACCAGGTACAGGTGTCTCTCGGGGTGTGGGATTATCCGCTTTGACAAGAGGATTGAGGCC  
 GAAGAGGCTATCAAAGGACTGAATGGGCAGAAAGCCGCTGGGCGCAGCTGAGCCCATCACAGTCAAGTTCGCGAAC  
 ACCCCAAGTCAGAAGACGGGGCAGGCGCTGCTCACCCACCTCTACCAGTCATCCGCCCGGCGCTACGCAGGCCCC  
 CTACACCATCAGACCCAGCGTTTTCCGGCTGGACAATTGCTCAACATGGCCTACGGCGTCAAGAGTCCCCCTGTGCG  
 CTCATCGCCAGGTTCTCGCCGATCGCCATCGATGGTATGAGCGGCCCTGGCGGGCGTGGGCCTGTCTGGGGGGCGCG  
 GCGGGCGCCGGCTGGTGCATCTTCGTGTACAACCTGTACCCGGAGGCAGACGAGAGCGTGCTGTGGCAGCTGTTT  
 GGGCCTTTTGGGGCAGTCAACACGTCAAGGTTCATCCGTGATTTACCACCAACAAGTGCAAGGGTTTCTGGCTTC  
 GTGACCATGACCAACTATGACGAGGCGGCCATGGCCATCGCCAGCCTGAACGGCTATCGCCTGGGCGAGCGCGTG  
 CTGCAGGTCTCCTTCAAGACCAGCAAACAGCACAAAGCGTGAAGCCCACCCCGCTGCCCTCCACCCCCCTCCCCG  
 GGCAGCAGAGAGAGAGAGAGAGAAAGAGAGAGAGAGAGAGAAGGGGGCCAAGAGAGACAGCACAGGCAGCCCC  
 ACGGACGACGCGAGGGCCCCACGTCCCTGCGGAAGCCACAGGGTGAGCACTCTGGGGTGGGAGGGTCTGCAGGGA  
 ATTGGGGGGGTGCCCGGGGATCCCCGCCCCATCTCCTGCCCCACCCAGGCTGGGCTGTTCACTCTCTCGTC  
 TTGGTTTGGTTCATGGTGAAGGTTTTTGTTCCTTTTTTCGGCTAAAAAGAATGCAGAGATGTGCCCCCACCCTCC  
 CCCTCGACCACCCCGATGGGATGGCTTGGGGGGCTCCAGGGGTGCCCTCCAGACCCCTTGCCAGGCCTCC  
 CCAGCACCTAGGTGGGGCTGGGGTAGGAGGAACAGGTTTAAAAATCCCCAAAAAGCGAACCGTGAGGAGGGGT  
 GTGGGCACCCCGGCCAGTGCCCCCTGGTGAATGCGGGGGAGCAGGCAGTGGGGCTGGAAGCAGAAACAAAAT  
 GAAAAAAAAGGGGGGTGGGAGGGGAAGAAAAACTCTATTTTTGTAAAAAGGGAAAAAGACCTCGTGAGAAATTT  
 TTACTGGGGATTCTTGAACCTGAAAAAAAACACAAAAAAGAC



410/5332  
**FIGURE 364**

ACTTCCGGTCTGGCTCCTAACAACGGGGGAGGCTGGTAACCAGGGTGGGGGGGATGGCGGAGCGGGCGCTAGAGC  
CCGAGGCGGAGGCGGAGGCTGAGGCGGGCGCGGGCGGGAGGCAGCAGCCGAGGAGGGCGCAGCGGGCCGAAAGG  
CGCGGGGCCGCGCGACTCACGGAGTCGGACCGGGCCCGGCGACGGCTCGAGTCCCGGAAGAAGTACGACGTGC  
GGCGCGTGTACCTGGGCGAGGCGCACGGGCCCTGGGTGGACCTGCGGCGCCGACGCGGCTGGAGCGACGCCAAGC  
TCGCCGCCTACCTCATCTCTCTGGAGCGCGGCCAGCGGAGCGGCCGCCACGGGAAGCCTTGGGAGCAGGTCCCCA  
AAAAGCCAAAGCGGAAGAAAAGGCGGCGACGCAACGTGAACCTGCCTGAAGAACGTGGTGATCTGGTACGAGGACC  
ACAAGCACCGCTGCCCCTACGAGCCGCACCTGGCGGAGCTAGACCCCACTTTTGGCCTGTACACCACGGCCGTGT  
GGCAGTGCGAAGCTGGCCACCGCTACTTCCAGGACCTGCATTGCCCCCTGAAGCCCCCTCAGCGACTCAGACCCTG  
ACAGTGACAAAGTGGGCAATGGGCTGGTGGCTGGCAGCTCTGACTCATCCAGCTCTGGCTCTGCCTCTGACTCTG  
AGGAGTCTCCTGAGGGCCAGCCGGTCAAGGCTGCGGCAGCGGCAGCGGCAGCGACGCCACCAGCCCGGTGGGCA  
GCAGCGGGCTCATCACTCAGGAGGGCGTGACATTCCCTTTGACGTCCACCACGTGGAAAAGCCTGGCCGAGCAGG  
GTACCCCGCTGTGCTCCAACCCAGCAGGCAATGGGCCTGAAGCCCTGGAGACAGTGGTGCTGCGTGGCCGTGCCTG  
TGCAAGTGGGTGCGGGCCCCAGCGCCCTCTTTGAGAACGTGCCCCAGGAGGCCCTGGGTGAGGTGGTGGCCAGCT  
GCCCCATGCCAGGCATGGTGCCCGGCTCACAGGTGATCATCATTGCGGGCCCTGGTTACGACGCTCTCACGGCCG  
AGGGCATTACCTCAACATGGCAGCAGGCAGCGGTGTCCCCGGCAGTGGACTGGGCGAGGAGGTGCCCTGTGCCA  
TGATGGAGGGTGTGGCAGCCTACACCCAGACAGAGCCCCAGGGTAGCCAGCCTAGCACCATGGACGCCACCGCAG  
TAGCAGGCATCGAGACCAAGAAAGAGAAGGAGGACCTGTGCTTGCTAAAGAAGGAGGAGAAGGAGGAGCCAGTAG  
CCCCGGAGCTGGCAACAACGGTGCTGAGAGCGCAGAGCCTGAGGCAGAGGCGGACGGGGAGGAGCTGGACGGCA  
GCGACATGTGAGCCATCATCTATGAAATCCCCAAGGAGCCTGAGAAGAGGCGGCGGAGCAAGCGGTGCGGGGTGA  
TGGATGCTGACGGCCTGCTCGAGATGTTCCACTGCCCATACGAGGGCTGCAGCCAAGTCTACGTGGCCCTCAGCA  
GCTTCCAGAACCACGTCAATCTTGTGCATCGGAAAGGAAAGACCAAAGTGTGCCCTCATCCTGGCTGTGGCAAGA  
AGTTCTATTTATCCAACCACCTGCGGCGGCACATGATCATCCATTAGGTGTCCGTGAATTCACCTGCGAGACCT  
GCGGCAAGTCCTTCAAGAGGAAGAACCACCTGGAGGTACATCGGCGCACCCACACCGGCGAGACCCCCCTGCAGT  
GCGAGATCTGTGGCTACAGTGCCGGCAGCGCGCTCGCTCAACTGGCACATGAAGAAGCACACTGCGGAGGTGC  
AGTACAACCTTACGTGCGATCGCTGCGGGAAGCGCTTCGAGAAGCTGGACAGCGTCAAGTTCACACGCTCAAAA  
GCCACCCGGATACAAGCCACCTGACCCACCTGACCACTGACCGCCCCTATTTATTCGTCCGCTCGGACACCAC  
GCCCCGGGCTTGCCGGGGCCTGGACAGCTGCGAGGGCCGCCCGGACCGCGGGCCGGAAGGAGGCGCCCCCGCCCCG  
CCCCAGAGCTGGGCCCCCTGGGCAGGTTCGCCACCCCGCCCCACCGCATCCTTCTCGGAGCTGGTGCCTGGGGCT  
GCATTGCTGGAACGTGTGTCAAGAGAGCAGAGTGAGATTAAAGAGCGAGAAAGG

411/5332  
**FIGURE 365**

GATTTGCTACCTCCCTGGAGCTCCCTGACCCGGACGCTCTCTGGGCCAATATGGCAGCGCCCAGCAACAAGACAG  
AGCTGGCCTGGAGTCCGCGGCTGGCCGCGTGAGTAGGTGATTGTCTGACAAGCAGAGGCATGAGCTGGGTCCAGG  
CCACCCTACTGGCCCGAGGCCTCTGTAGGGCCTGGGGAGGCACCTGCGGGGCCGCCCTCACAGGAACCTCCATCT  
CTCAGGTCCCTCGCCGGCTCCCTCGGGGCCTCCACTGCAGCGCAGCTGCCCATAGCTCTGAACAGTCCCTGGTTC  
CCAGCCCACCGGAACCCCGGCAGAGGCCACCAAGGCTCTGGTGCCCTTTGAGGACCTGTTTGGGCAGGCGCCTG  
GTGGGGAACGGGACAAGGCGAGCTTCCTGCAGACGGTGCAGAAATTTGCGGAGCACAGCGTGCGTAAGCGGGGCC  
ACATTGACTTCATCTACCTGGCCCTGCGCAAGATGCGGGAGTATGGTGTGAGCGGGACCTGGCTGTGTACAACC  
AGCTGCTCAACATCTTCCCCAAGGAGGTCTTCCGGCCTCGCAACATCATCCAGCGCATCTTCGTCCACTACCCTC  
GGCAGCAGGAGTGTGGGATTGCTGTCTTGAGCAGATGGAGAACCACGGTGTGATGCCCAACAAGGAGACGGAGT  
TCCTGCTGATTAGATCTTTGGACGCAAAAGCTACCCCATGCTCAAGTTGGTGCGCCTGAAGCTGTGGTTCCCTC  
GATTCATGAACGTCAACCCCTTCCAGTGCCCCGGGACCTGCCCCAGGACCCTGTGGAGCTGGCCATGTTTGGCC  
TGCGGCACATGGAGCCTGACCTTAGTGCCAGGGTCACCATCTACCAGGTTCCCTTTGCCCAAAGACTCAACAGGTG  
CAGCAGATCCCCCCCAGCCCCACATCGTAGGTAAGTCCGAGAGCATGGGGGCAGCCAAGTCTCTAACCTTACCCA  
GGCCCTGCCAGGTTCTCGCTGGGCCTAGGCTGGGCTCCCTGGGCCTCTGGGCCGAGTCCCTTGCAGGGCACAGGG  
CATGTATGTCTCCACACCAGGAATCCAGAGTCCCGATCAGCAGGCCGCCCTGGCCCGCCACAATCCAGCCCGGCC  
TGCTTTTGTGAGGGCCCCCTTCTCCCTGTGGCTCCGCAACAAGTGTGTGTATTACCACATCCTCAGAGCTGACTT  
GCTGCCCCCGGAGGAGAGGGAAGTGGAAGAGACGCCGAGGAGTGGAACCTCTACTACCCGATGCAGCTGGACCT  
GGAGTATGTGAGGAGTGGCTGGGACAACCTACGAGTTTGACATCAATGAAGTGAGGAAGGCCCTGTCTTCGCCAT  
GTGCATGGCGGGTGCTCATGACCAGGCGACGATGGCTAAGTGGATCCAGGGCCTGCAGGAGACCAACCCAACCTT  
GGCCCAGATCCCCGTGGTCTTCCGCCCTCGCCGGGTCCACCCGGGAGCTCCAGACATCCTCTGCAGGGCTGGAGGA  
GCCGCCCTGCCCCAGGACCACCAGGAAGAAGACGACAACCTGCAGCGACAGCAGCAGGGCCAGAGCTAGTCTGA  
GCCGGCGCGAGGGCACGGGCTGTGGCCCCGAGGAGGCGGTGGACTGAAGGCATGAGATGCCCTTTGAGTGTACAGC  
AAATCAATGTTTTCTGCTTGGGGCTCTCTTCCCTCATCTCTAGCAGTATGGCATCCCCTCCCCAGGATCTCGGG  
CTGCCAGCGATGGGCAGGCGAGACCCCTCCAGAATCTGCAGGCGCCTCTGGTTCTCCGAATTCAAATAAAAAGGG  
GCGGGAGCGCTGTTGGTTGTGCGC

412/5332  
**FIGURE 366**

TGCAGACGGAACTTCAGCCGCTGCCTCTGTTCTCAGCGTCAGTGCCGCCACTGCCCCGCCAGAGCCCACGGGCC  
AGCATGTCCCTCTGCTCACTTCAACCGAGGCCCTGCCTACGGGCTGTCAGCCGAGGTTAAGAACAAGCTGGCCAG  
AAGTATGACCACCAGCGGGAGCAGGAGCTGAGAGAGTGGATCGAGGGGGTGACAGGCCGTGCGATCGGCAACAAC  
TTCATGGACGGCCTCAAAGATGGCATCATTCTTTGCGAATTCATCAATAAGCTGCAGCCAGGCTCCGTGAAGAAG  
ATCAATGAGTCAACCCAAAATTGGCACCAGCTGGAGAACATCGGCAACTTCATCAAGGCCATCACCAAGTATGGG  
GTGAAGCCCCACGACATTTTTGAGGCCAACGACCTGTTTGAGAACACCAACCATAACAGGTGCAGTCCACCCTC  
CTGGCTTTGGCCAGCATGGCGAAGACGAAAGGAAACAAGGTGAACGTGGGAGTGAAGTACGCAGAGAAGCAGGAG  
CGGAAATTTCAGCCGGGGGAAGCTAAGAGAAGGGCGGAACATCATTGGGCTGCAGATGGGCACCAACAAGTTTGCC  
AGCCAGCAGGGCATGACGGCCTATGGCACCCGGCGCCACCTCTACGACCCCAAGCTGGGCACAGACCAGCCTCTG  
GACCAGGCGACCATCAGCCTGCAGATGGGCACCAACAAGGAGCCAGCCAGGCTGGCATGACTGCGCCAGGGACC  
AAGCGGCAGATCTTCAGCCGGGGCTGGGCATGGAGCACTGCGACACGCTCAATGTGAGCCTGCAGATGGGCAGC  
AACAAGGGCGCCTCGCAGCGGGGCATGACGGTGTATGGGCTGCCACGCCAGGTCTACGACCCCAAGTACTGTCTG  
ACTCCCGAGTACCCAGAGCTGGGTGAGCCCGCCACAACCACCACGCACACAATACTACTACAATTCCGCCTAGGGC  
CACAAGGCCTTCCCTGTTTTCCCCCAAGGGAGGCTGCTGCTGCTCTTGCTGGACCCAGCCAGGCCAGCCGAC  
CCCCCTCTCCCTGCATGGCATCCTCCAGCCCCGTGTAAGTCAACCTCTACAGGGTTAGAGTTTGGAGAGAGCAGA  
CTGGCGGGGGGGCCATTGGGGGGAAGGGGACCTCCGCTCTGTAGTGCTACAGGGTCCAACATAGAGCCGGGTGT  
CCCCAACAGCGCCCAAAGGACGCACTGAGCAACGCTATTCCAGCTGTCCCCCACTCCCTCACAAGTGGGTACCC  
CCAGGACCAGAAGCTCCCCAGCAAAGCCCCAGAGCCAGGCTCGGCCTGCCCCACCCCATCCCGCAGTGGG  
AGCAAAGTGCATGCCAGAGACCCAGCGGACACACGCGGTTTGTTTGCAGCGACTGGCATACTATGTGGATGTG  
ACAGTGGCGTTTGTAATGAGAGCACTTTCTTTTTTTCTATTTCACTGGAGCACATAAATGGCTGTAAATCT

556/5332  
**FIGURE 495**

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG  
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCTCGGCAGCCTGATC  
TTCTGCTTCGGCATCTGGATCCTCATTGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG  
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC  
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCTG  
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG  
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC  
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTGCGAGGCGCACCGCGTGCCCTGC  
TCCTGCTACAACCTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT  
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC  
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA  
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA  
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT  
AAATATTTGTTTAATCCCCAGTTGCTGCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG  
CCCCTGCTGCTGTCACCTCTCCACGGGACCTGGGGCTTCGTCCACAGCTTCCTGTCCCCATCTGTGCGCCTAC

557/5332  
FIGURE 496A

GAGGGAGCGCCGGGGCCCTGGGCTGCAGGAGGTTGCGGCGGCCGCGGCAGCATGGTGGTGCCGGAGAAGGAGCAG  
AGCTGGATCCCCAAGATCTTCAAGAAGAAGACCTGCACGACGTTCATAGTTGACTCCACAGATCCGGGGAGCCTG  
GATTGTCACTGGGGGTCTGCACACGGGCATCGGCCGCGCATGTTGGTGTGGCTGTACGGGACCATCAGATGGCCAG  
CACTGGGGGCACCAAGGTGGTGGCCATGGGTGTGGCCCCCTGGGGTGTGGTCCGGAATAGAGACACCCCTCATCAA  
CCCCAAGGGCTCGTTCCTTGCAGGTACCGGTGGCGCGGTGACCCGGAGGACGGGGTCCAGTTTCCCTGGACTA  
CAACTACTCGGCCCTTCTTCTGGTGGACGACGGCACACACGGCTGCCTGGGGGGCGAGAACCCTTCCGCTTGCG  
CCTGGAGTCCCTACATCTCAGAGCAGAAGACGGGCGTGGGAGGGACTGGAATTGACATCCCTGTCTCTCTCTCT  
GATTGATGGTGTATGAGAAGATGTTGACGCGAATAGAGAACGCCACCCAGGCTCAGCTCCCATGTCTCTCTCTCTCT  
TGGCTCAGGGGGAGCTGCGGACTGCCTGGCGGAGACCCTGGAAGACACTCTGGCCCCAGGGAGTGGGGGAGCCAG  
GCAAGGCGAAGCCCGAGATCGAATCAGGCGTTTCTTTCCCAAAGGGGACCTTGAGGTCTGACGGCCCAGGTGGA  
GAGGATTATGACCCGGAAGGAGCTCCTGACAGTCTATTCTTCTGAGGATGGGTCTGAGGAATTGAGACCATAGT  
TTTGAAGGCCCTTGTGAAGGCCTGTGGGAGCTCGGAGGCCTCAGCCTACCTGGATGAGCTGCGTTTGGCTGTGGC  
TTGGAACCGCGTGGACATTGCCCAGAGTGAACCTTTTCGGGGGGACATCCAATGGCGGTCTCTCCATCTCGAAGC  
TTCCCTCATGGACGCCCTGCTGAATGACCGGCCTGAGTTCGTGCGCTTGCTCATTTCACCGCCTCAGCCTGGG  
CCACTTCTGACCCCGATGCGCCTGGCCCCAACTCTACAGCGCGGCGCCCTCCAACCTCGCTCATCCGCAACCTTTT  
GGACCAGGCGTCCACAGCGCAGGCACCAAAGCCCCAGCCCTAAAGGGGGAGCTGCGGAGCTCCGGCCCCCTGA  
CGTGGGGCATGTGCTGAGGATGCTGCTGGGGAAGATGTGCGCGCCGAGGTACCCCTCCGGGGGCGCCTGGGACCC  
TCACCCAGGCCAGGGCTTCGGGGAGAGCATGTATCTGCTCTCGGACAAGGCCACCTCGCCGCTCTCGCTGGATGC  
TGGCCTCGGGCAGGCCCCCTGGAGCGACCTGCTTCTTTGGGCACTGTTGCTGAACAGGGCACAGATGGCCATGTA  
CTTCTGGGAGATGGGTTCGAATGCAGTTTCTCTCAGCTCTTGGGGCTGTTTGTCTGCTCCGGGTGATGGCACGCCT  
GGAGCCTGACGCTGAGGAGGCAGCACGGAGGAAAGACCTGGCGTTCAAGTTTGAGGGGATGGGCGTTGACCTCTT  
TGGCGAGTGCTATCGCAGCAGTGAGGTGAGGGCTGCCCGCCTCCTCCTCGTCTGCTGCCCCGCTCTGGGGGGATGC  
CACTTGCCCTCCAGCTGGCCATGCAAGCTGACGCCCCGTGCTTCTTTGCCAGGATGGGGTACAGTCTCTGCTGAC  
ACAGAAGTGGTGGGGAGATATGGCCAGCACTACACCCATCTGGGCCCTGGTTCTCGCCTTCTTTTGCCCTCCACT  
CATCTACACCCGCCTCATCACCTTCAGGAAATCAGAAGAGGAGCCACACGGGAGGAGCTAGAGTTTGACATGGA  
TAGTGTCATTAATGGGGAAGGGCCTGTGCGGACGGCGGACCCAGCCGAGAAGACGCCGCTGGGGGTCCGCGCCA  
GTCGGGGCGTCCGGGTGCTGCGGGGGCGCTGCGGGGGGCGCGGTGCTACGCCGCTGGTTCCACTTCTGGGG  
CGCGCCGGTGACCATCTTCATGGGCAACGTGGTCAGCTACCTGCTGTTCTCTGCTGCTTTTCTCGCGGGTGTGCT  
CGTGGATTTCAGCCGGCGCCGCCCGGCTCCCTGGAGCTGCTGCTCTATTTCTGGGCTTTTACGCTGCTGTGCGA  
GGAAGTGCGCCAGGGCCTGAGCGGAGGCGGGGGCAGCCTCGCCAGCGGGGGCCCCGGGCTGGCCATGCCTCACT  
GAGCCAGCGCCTGCGCCTCTACCTCGCCGACAGCTGGAACCAAGTGCACCTAGTGGCTCTCACCTGCTTCTCTCT  
GGGCGTGGGCTGCCGGCTGACCCCGGGTTTGTACCACCTGGGCGCACTGTCTCTGCATCGACTTTCATGGTTTT  
CACGGTGCGGCTGCTTACATCTTACCGTCAACAAACAGCTGGGGCCCAAGATCGTCATCGTGAGCAAGATGAT  
GAAGGACGTGTTCTTCTTCT  
GAGGCCACGGGACAGTGACTTCCCAAGTATCCTGCGCCGCGTCTTCTACCGTCCCTACCTGCAGATCTTCGGGCA  
GATTCCCCAGGAGGACATGGACGTGGCCCTCATGGAGCACAGCAACTGCTCGTGGAGCCCGGCTTCTGGGCACA  
CCCTCCTGGGGCCAGGCGGGCACCTGCGTCTCCAGTATGCCAACTGGCTGGTGGTGTGCTGCTCTCTCTCTCTCT  
CCTGCTCGTGGCCAACATCCTGCTGGTCAACTTGCTCATTGCCATGTTTCAATTACACATTGCGCAAAGTACAGG  
CAACAGCGATCTCTACTGGAAGGCGCAGCGTTACCGCCTCATCCGGGAATTCCAATCTCGGCCCGCGCTGGCCCC  
GCCCTTTATCGTCATCTCCCACTTGCGCCTCCTGCTCAGGCAATTGTGCAGGCGACCCCGGAGCCCCAGCCGTC  
CTCCCCGGCCCTCGAGCATTTCCGGGTTTACCTTTCTAAGGAAGCCGAGCGGAAGCTGCTAACGTGGGAATCGGT  
GCATAAGGAGAACTTTCTGCTGGCACGCGCTAGGGACAAGCGGGAGAGCGACTCCGAGCGTCTGAAGCGCACGTC  
CCAGAAGGTGGACTTGGCACTGAAACAGCTGGGACACATCCGCGAGTACGAACAGCGCCTGAAAGTGTGGAGCG  
GGAGGTCCAGCAGTGTAGCCGCGTCTGGGGTGGGTGGCCGAGGCCCTGAGCCGCTCTGCCTTGTGCCCCAGG  
TGGGCCGCCACCCCTGACCTGCCTGGGTCCAAAGACTGAGGCCCTGCTGGCGGACTTCAAGGAGAAGCCCCACA  
GGGGATTTTGTCTCTAGAGTAAGGCTCATCTGGGCCTCGGCCCGGCACCTGGTGGCCTTGTCTTGGGTGAGC  
CCCATGTCCATCTGGGCCACTGTGAGGACCACCTTTGGGAGTGTATCCTTACAAACCACAGCATGCCCGGCTCC  
TCCCAGAACCAGTCCAGCCTGGGAGGATCAAGGCCTGGATCCCGGGCCGTTATCCATCTGGAGGCTGCAGGGT

[illegible]

414/5332  
**FIGURE 368**

CCCACCCGGGCTCGCGTCTCCGTTTCTCCGAGAGGCCCAAGGTGTCTCCGCCGCAGCCTCTGTGCGCGCCGTGACC  
TGTACAGGTCGCGGGAGTCGTAGGGAGGACGCCGGGACACCTGGAAGCCGAGAAATGGATTTCAGTGGCCTTTGAG  
GATGTGGCTGTGAACCTTCACCCTGGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAGAATCTCTACAGGGATGTG  
ATGCGGGAAACCTTCAGGAACCTGGCTTCTGTAGGAAAACAATGGGAAGACCAGAACATTGAAGACCCATTCAAA  
ATTCCCAGGAGAAATATAAGTCATATTCCAGAGAGACTCTGTGAAAGTAAAGAAGGTGGTCAAGGTGAAGAAACC  
TTCAGCCAGATTCCAGATGGTATTCTGAACAAGAAAACCTCCTGGAGTAAAACCGTGTGAAAGCAGTGTGTGTGGA  
GAAGTTGGCATGGGTCTTCATCACTTAATAGGCACATCAGAGATCACACTGGACGTGAACCAAATGAATATCAG  
GAATATGGAAAGAAGTCATATACACGTAACCAGTGTGGACGAGCCTTGAGTTATCATCGCTCTTTTCCAGTACGT  
GAAAGGACTCATCCTGGAGGAAAGCCCTATGATTGTAAGGAATGTGGAGAAACCTTTATTTCTCTGTGAAGCATT  
CGAAGACACATGTTAACGCATAGGGGAGGTGTACCTTACAAATGTAAGGTGTGTGGGAAAGCCTTTGATTATCCC  
AGTTTATTTCTGTATACATGAAAGAAGTCACACTGGAGAGAAACCTTATGAATGCAAGCAATGTGGGAAAGCCTTC  
AGTTGTTCCAGTTACATTAGAATACATGAAAGGACTCACACTGGAGATAAACCTTATGAATGCAAGCAGTGTGGG  
AAAGCTTTCAGTTGTTCCAAGTACATTGCAATCCATGAACGAACCTCACACAGGAGAGAAACCTTACGAATGTAAA  
CAGTGCGGTAAAGCCTTTAGGTGCGCCAGTTCTGTTTCAAGTCACGAGAGGACTCACACCGGAGAGAAACCTTTT  
GAATGTAAGGAATGCGGGAAGGCTTTGACTTGTCTTGAAGTGTGTAAGACACATGATAAAGCACACTGGCAAT  
GGACCTTATAAATGTAAGGTGTGTGGGAAAGCCTTTGATTTCCCCAGTTTCATTTGCAATCCATGAAAGGACCCAC  
ACTGGAGAGAAACCTTATGATTGTAAGCAATGTGGGAAAGCCTTCAGTTGTTCCAGTTTCGTTTCGAAAACATGAA  
AGAATTACACTGGAGAGAAACCTTATAAATGTACAAAATGTGGGAAAGCCTTCAGTCGTTCCAGTTACTTCCGA  
ATCCATGAAAGAAGTCACACTGGAGAGAAACCTTATGAATGTAAGCAATGTGGGAAAGCCTTCAGTCGATCCACT  
TACTTTTCAGTACATGAAAAAATTCATACTGGAGAGAAACCTTATGAGAACCCTAACCTAACGCTTCAGTTGTC  
CCAGTTCTTTTCATGAGCATGAAAGGAGTCACATAGAGAAACCCCATGAAAGTAAGAAATTTGGGAAAGCCTTCAG  
TCCTTTCTGTTTCTTTCAACTACGTGAAAGGATTACAGTGGAGAAAGACCTGTAAAGATAATTGGCTTTAAATT  
ACGAGAGACTTGTGATAGGACAGTAAAACCTAGAGTTGGAGTTGGATCTCTGGATTGTGTTATGTCAGTGTGGT  
AGGTTAGGAAGTAGATTTCCCAGAATCCATTCCATTTGTGATTCCATGATACAATTCACCAGTAACCTATCTTAC  
ATGAGATTGGAAGTAAGTTAAGAAGGCATTAGTCATGTTTGAAGCACCATACAGGGAGACAGCTGTGTGAAT  
ACAGGCTGTATGGACACTTGCTTCCATCCCATTTTCTGCTTCTTTGGGTTGCCAATCAAGAGTATCCTCAAAAC  
GACTTGACTTTAATTTTCTCGGAGGTGATAGGCTTCCACACAGGTCTCCAGAAGCCCTGCATTGAATATCCATCC  
ACACTTTGGTTTTCTTTCAGACATTATTATGCTGTACTAGGCAACTAATTCAGACTGTCCTGGTTGGGAATATT  
CTGTGATGCTCTGACTCCCCTAGTCTGTAGACGGAATTGGCATAACGGTCTAATTTGTGTAGTAAGCACCTTTGTT  
CATACTAGTAGTACTGTATTCTTGATTTCAGCCTGATAGCTACCATGCTGCTGTCAAACCAACCAGAGGGGAGC  
TTGTTCTTCTGCTGTAGTGTGCAGTGACTGGCCTCACCAGGACTTTGATGTGAGAATGAGCACTTTCTCTATC  
AGGAAATTTCAAGTGTTCCTGTTATTCTGATGCTCAATGTAATGCCTCAGTTTCATTTTCAGTTGTTTGATTATAT  
GTGACTAATATGTATTTTTTATTCAAACAAGACTTCTGTACATGTTTCTTCAAAACAGTTTATTAAGTGTCTTCA  
GTCTTGGATTACATCAAGTTTATAATTTTGGCAAATTGTTAAGACACTGTGAAGTCAGCGTTAACCATGTGCATA  
CAACTTAAGGAATTTTTTCTCCTCATGTAAATTTTACTTTTCATGCTTATATAGTTTCAACTTTTATCTTCATA  
GTAATTTCTCATCTACTCATAATACCAAAAGTTAAGTCATGCTGTTTTGTGTGCTCTCTTGCTAAAGACCGCAGA  
GACCATACCTGTTGTCAAAGAGGGTGTAAATAAACTGTAATAATAATCATGACCAC

415/5332  
**FIGURE 369**

TTTCTGCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGCTAAGTCAGAGT  
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA  
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG  
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG  
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA  
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAA  
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC  
ATGACTCCGTGGATAAGACTGTCATTAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC  
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTGGAAGTGGTTCTGGAACTTTGGTGGTGGTC  
GTGGAGGTGGTTTCGGTGGGAATGACAACCTTCGGTTCGTGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGGCA  
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAG  
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT  
TTGGAGGCAGAAGCTCTGGCCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG  
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAG  
AGCCAGAGAAGTGACAGGGGAAGCTACAGGTTACAATAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCC  
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACCTCGAGGACTGTATTTGTG  
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT  
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGCTTTTT  
TTTT



416/5332  
**FIGURE 370**

CTGACAGACACCCACAGACGTGTCTGTAGCATCCTCTGTCACTGGGACCCGTA CTGGCAGCAGGAGCCGTAGG  
GAGGACTGGGACACCTGGAAGCCAGGAATTGATTGTACGGGGGCCACTAGAGGGTCATGGGGGAAATCCTGCCTC  
GAGTATGGGGTTCGTGTGAGAGGAGCTGACTCAGTGACCTTTGAGGATGTGGCTGTGAACTTCACCCAGGAGGAG  
TGGGCTTTGCTGGGTCCTTCCCAGAAGAATCTCTACAGAGATGTGATGTGGGAAACCTTCAGGAACCTGATGTCT  
GTAGGAATAAAATGTGAAGACCAGATCATTGAAGATCAGTACAATAATCCAAAAGAAATCTAAGCTATTGCCAC  
TCCTTTCAAACACATGAAAGGCCTCACACTGGAAAGAACTCCATGTAAGAAATGTGGAAAAACCTTCATTTCTG  
TTCAAACCTTTTGAAGATACATGTGAAGATGAACCTTATAAATGTAAGTTTTGTGGGAAGGCCTTTGATAATCTA  
CATTTATATCTTACACATGAAAGAACTCACACTGGAGAGAAACCTATGAATGTAATAAATGTGGGAAAGCCTTC  
AGTTGTTCCAGTTCCATTTCGAAAACATGCAAGAATTCACACTGGAGAGAAACCTATATATGTAAACAATGTGGC  
AAAGCCTTTAGATATTCCAGTTCTATTGAAATCATGAAACACTCACACTGGTGAAAAACCTGTGAATGTAAG  
CAATGTGGGAAAGCCTTTAGTTATTCCAGTTACTTTGAAATACATGAAAGAAATTCACACTGGAGAGCAGGTGTAT  
AAATGTAAGGAATGTGGGAAACATTCACCTTATCCCAGTGCCTTTTATAAACATAAAAGTACCCACACTTCACAG  
AACTTTTATGAATGTAAGGAATGTGGGAAAGCATTTGATTGTTTTAGTTTCCTTTCATAGTCATGAAGGGGTTAC  
ACTGGAGAGAAACCTATGAATGCAGAACGTGGAAAGCCTTCAGTAG

417/5332  
**FIGURE 371**

GAGAGAGAGACGCCCTGGAAGGTCTGTATCAGCGTCTGTGCGCTGGGACCCACACTGGCTTTTAAGGAGGACAC  
CCGGACACCTGGAAGCTGGGAAATGAAGTCATACATGTGAAATTAAAGATGACAGTCAATGTGGAGAACTTTTG  
GCCAGATTCCAGATAGTATTGTGAACAAGAACAACCTCCTCGAGTAAATCCATGTGACAGTGGTGAGTGTGGAGAAG  
TCGTCTTGGGTCAATTCGTCTCTTAATTGCAACATCAGAGTTGACACTGGACACAAATCATGTGAGCATCAGGAAT  
ATGGGAGAGAAGCCATATACACATAAAACAACGTGGGAAAGCCATCAGTCATCAGCACTCCTTCCAGACACATGAAA  
GGCCCCCACC GGAAAGAAACCCCTTCGATTGTAAAGAATGTGCAAAAACCTTTAGTTCCTTGAAACCTCCGAA  
GACACATGGCGGCACACCATGGAGATGGACCTTATAAATGTAAGTTGTGTGGGAAAGCCTTTGTTTGGCCAGTT  
TATTTCAATTTGCACGAAAGAACACACACTGGAGAGAAACCGTATGAATGTAAGCAGTGTTCTAAAGCCTTTTCCTT  
TTTACAGTTCCTATCTTAAGACATGAAAGAATCCACACGGGAGAGAAAGCGTATGAATGTAAGCAGTGTTCCAAAG  
CCTTTTCCTGATTACAGTACCTATCTAAGACATGAGAGAATCACACCGGAGAGAAACCCCTATAAATGTACACAAT  
GTGGGAAAGCCTTCAGCTGTTACTATTACACTCGACTACATGAAAGGACTCACACGGGAGAAACAACCCCTATGCAT  
GTAAGCAATGTGGGAAACGTTTTATCATCACACAAGCTTTTGAAGACACATGATAAGGCACACTGGAGACGGAC  
CACATAAATGTAAGATATGTGGGAAAGGCTTTGATTGTCCTAGTTCAGTTCGAAATCATGAAACTACTCACACTG  
GAGAGAAACCCCTATGAATGTAAGCAGTGTTGGGAAAGTGTTATCTCATAGCTCGAGCTTTTGAAGTCACATGATAA  
CACACACAGGAGATGGACCCAGAAATGCAAGATATGTGGGAAAGCCTTTGGTTGTCCAGTTTATTTCAAAGAC  
ATGAAAGGACTCACACTGGAGAGAAACCCCTATCAATGTAAACAATGTGGTAAAGCCTTCAGTCTTGCCGGTTCCC  
TTTGAAGACATGAAGCAACTCACACTGGAGTGAAACCCCTATAAATGTCAGTGTGGGAAAGCCTTTAGTGATCTCT  
CTTCCTTTCAAATCATGAGACAACTCACACTGGAGAGAAGCCATATGAGTGTAAGGAATGTGGGAAAGCATTCA  
GTTGTTTCAAATACCTTTCTCAACATAAAAGGACCCACACAGTAGAAAAACCTTATGAGTGTAACATGTAGAA  
AAGCCTTCAGTCATTTAGTAACCTTAAAGTCCATGAAAGGATTCACTCTGGAGAGAAGCCATATGAATGTAAGG  
AATGTGGAAAAGCATTCTCTTGGCTCACTTGCCCTTACGACATGAAAGAATTC

418/5332  
**FIGURE 372**

ATGGACCTTACTACTGAATGTAGAAATGCATTTACTAGTCCTAATTCATTTTCAGTTACATGAAAGATTTCAAAC  
GCAGAGAACCACCTATGAATGTAAACAATGTGAGTCTAGGCCCCAGTGCTGTCACTCTCACCACCTCCTCCTAC  
ACATGTGAGATGTTTCAGGACCCAGTGGCCTTTGAGGATGTGGCTGTGAACCTTCAACCAGGAGGAAAAATTTTATG  
GGAGAGAGACTCTTTGAGAGTGCAGAAGGTAGTCAGTGTGGAGAACTTTCAACCAGGTTCCGGAAGACATGCTG  
AACAAAGAAAACCTCTTCCTGGAGTAAAATCATGTGAAAGTGGTACATGTGGAGAAATCTTCATGGGATATTCATCC  
TTTAATAGGAACATCAGAAGTACACTGGACACCAACCACATAAGTGTGAGAAATTTTAGAGAAGCCATATAAA  
CATAAACAACGTAGGAAAGCCTTGAGCCATAGCCACTGCTTTCGAACACATGAAAGGCCTCACACTAGAGAGAAA  
CCTTTTGATTGTAAGGAATGTGAAAAATCTTTCAATTTCTCCTGCAAGCATTGGAAGATATATGGTAACGCACAGT  
GGAGATGGACCTTATAAATGTAAGTTTTGTGGGAAAGCCTTGGATTGTCTCAGTTTATACCTTACCCATGAACGA  
ACTCACACTGGAGAGAAACGATATGAATGTAAACAATGTGGTAAAGCCTTCAGTTGGCACAGTTCTGTTTGAATC  
CATGAAAGAACTCACACTGGGGAGAAGCCATATGAATGTAAGGAGTGTGGGAAATCATTCAATTTTTCCAGTTCC  
TTTCGCAGACATGAAAGGACACACACAGGAGAGAAGCCGTACAAATGTAAGGAATGTGGGAAAGCCTTCAATTGT  
CCCAGTTCTTTTCACAGGCATGAAAGGACTCACACAGGAGAAAAACCCTATGAATGTAAACTATATGGGAAAGCA  
TTATCTCGCCTTATAAGCTTTTGAAGACACATGAGAATGCACACTGGAGAGAGGCCTCATAAATGTAAGATATGT  
GGGAAAGCCTTTTACTCTCCCAGTTCAATTTCAAAGGCATGAAAGAAAGTCACACTGGAGAGAAACCCTACAAATGC  
AAGCAATGTGGGAAAGCCTTCACCTGTTCCACTTCGTTTCAATATCATGAAAGGACTCACACTGGAGAGAAACCC  
GATGGGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCAAGTACATTGGAATACATGGAAGGACTCACACTGGT  
GAGAAACCCTATGAATGTAAGCAATGTGGGAAAGCATTTCATTGTGTCAGCTCCTTTTCATAGACATGAAAGGACT  
CACGCTGGAGAAAAACCTTATGAATGTAAGCATTGTGGGAAAGCCTTCACCTGTTCCATATATATTAGAATACAT  
GAAAGAATTCACACTGGAGAGAAACCTTACCAATGTAAGGAATGTGGGAAAGCCTTCATTGTTCCAGTTACTGT  
CGAAAACATGAAAGAACTCACACTATTAATATATTGA

419/5332  
**FIGURE 373**

ATGTTTCAGGACCCAGTGGCTTTTAAGGATGTGGCTGTGAACTTCACCCAGGAGGAGTGGGCTTTGCTGGATATT  
TCCCAGAGGAACTCTACAGGGAAGTGATGCTGGAACTTTCAGGAACCTGACCTCTTTAGGAAAAAGGTGGAAA  
GACCAGAACATTGAATATGAGCACCAAAACCCAGGAGAACTTCAGGAGTCTCATAGAAGAAAAAGTCAATGAA  
ATTAAAGATGACAGTCATTGTGGAGAACTTTTACCCAGTTCAGATGACAGACTGAACTTCAGGAGAAGAAA  
GCTTCTCCTGAAGTAAATCATGTGAAAGCTTTGTGTGTGGAGAAGTTGGCCTAGGTAACCTCATCTTTTAATATG  
AACATCAGAGGTGACATTGGACACAAGGCATATGAGTATCAGGAATATGGACCAAAGCCATGTAAGTGTCAACAA  
CCTAAAAAGCCTTCAGATACCGCCCCTCCTTTAGAACACAAGAAAGGGATCACACTGGAGAGAAACCCAATGCT  
TGTAAGTATGTGGAAAAACCTTTATTTCCATTCAAGTGTTGGAAGACACATGGTAATGCACAGTGGGGATGGA  
CCTTATAAATGTAAGTTTTGTGGGAAAGCATTCCATTGTCTCAGATTATATCTTATCCATGAAAGAATTCACACT  
GGAGAGAAACCATGTGAATGTAAACAGTGTGGTAAATCCTTTAGTTATTCTGCTACCCATCGAATACATAAAAGA  
ACTCACACTGGAGAAAAGCCTTATGAATATCAGGAGTGTGGGAAAGCATTTCATAGTCCCAGATCCTATCGTAGA  
CATGAAAGGATTACATGGGAGAAAAGGCTTATCAATGTAAGGAATGTGGAAAAGCATTACAGTGTCCCGTTAT  
GTTTCGTATACATGAAAGGACCCACTCTAGGAAAAATCTCTATGAATGTAAGCAGTGTGGGAAAGCATTATCCTCT  
CTTACAAGTTTTCAAACACACGTAAGATTGCACTCTGGAGAAAGACCTTATGAATGTAAGATATGTGGAAAAGAC  
TTTTGTTCTGTGAATTCATTTCAAAGACATGAAAAAATTCACAGTGGAGAGAAACCCCTATAAATGTAAGCAGTGT  
GGTAAAGCCTTCCCTCATTCCAGTTCCTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCCTATGAGTGT  
AAGCAATGTGGGAAAAGCCTTCAGATCTGCCTCACACCTTCGAGTGCATGGTAGGACTCACACTGGAGAGAAACCG  
TATGAATGTAAGGAATGTGGGAAAGCCTTCAGATATGTGAATAACCTTCAAAGTCATGAAAGGACACAAACACAC  
ATAAGAATACACTCTGGAGAAAGACGTTATAAATGTAAGATATGTGGGAAAGGCTTTTATTGTCCCAATCATTT  
CAAAGACATGAAAAAACTCACACTGGAGAGAACTCTATGAATGCAAGCAACGTTCAAGTAGTTCCTTCAGTAGTT  
CCAGTTCCTTTTGATATCATGAAAGGACTCACACTGGAGAGAAGCCCTATAAATGCGAGCAATGTGGGAAAGCCT  
TCAGAGCTGTGTCAATCCTTTGAATGCATGGTAGGACTCACCTGAAGAGAAACCCCTATGAGTGTGAGCAATGAC  
GGAAAGCCTTCAGATCTGCCCCACACCTTTGAATACGTGGTAGGACACACAATGGAGAGAAGCCCTATGCATAAC  
CTTCGAATTCATGAAAGGACACAAACACACATAATGCACTCTGTAGAGAGACCTTATAAATGTAAGATATGTGGG  
AGGGGCTTTTATTCTGCCAAGTCATTTCAAATACATGAAAAATCTTACACTGGAGAGAAACCCCTATGAGTGTAAAG  
CAATGTGGGAAAGCCTTTGTTTCCTTCACTTCCTTTTCGATATCATGAAAGGACTCACACTGGAGAGAACCCCTAT  
GAGTGTAAAGCAATTTGGGAAAGCCTTCAGATCTGTCAAAAATCTTCGATTTTATAAAAGGACACACACTGGAGAG  
AAACCCCTGTGAATACATGAAAAGACTCACACTGGAAGGAAACACTATGAATGCAAGCAATGTGGCAAAGCTTTCA  
CTTCTTCCAGTTCTTTTCAATATCATGAAAGAACACACTAGGGAGAAACCCCTATCAATGTAAGCAATGTGCAAAA  
GCCTTTATTTCTTCCACTTCTTTTCAATATCATGAAAGGACTCACATGGGAGAGAAACCCCTATGAGTGTATGCCA  
AGTGGGAAAGCCTTCATTTCTTCTAGTTCCCTTCAATATCATGAAAGGACTCACACTGGAGAGAAGCCCTATGAA  
TATAAGCAATGTGGGAAAGCCTTCAGATCAGCCTCGCACCTTCAAATGCATGGAAGGACTCACACTGGAGAAAAA  
CCCTATGAATGTAAGCAGTATGGGAAAGCCTTCAGACCTGACAAGATTCTTTGA

420/5332  
**FIGURE 374**

AGAAGAGAAAGTCAATGAAATTAAAGAAGACAGTCATTGTGGAGAACTTTTACCCCAGTTCCAGATGACAGGCT  
GAACTTCCAGAAGAAGAAAGCTTCTCCTGAAAGTAAATCATGTGACAGCTTTGTGTGTGAAGTTGGCCTAGGTAA  
CTCATCTTCTAATATGAACATCAGAGGTGACACTGGACACAAGGCATGTGAATGTCAGGAATATGGACCAAAGCC  
ATGGAAGAGTCAACAACCTAAAAAAGCCTTCAGATATCACCCCTCCTTGAGAACACAAGAAAGGGATCACACTGG  
AAAGAAACCCTATGCTTGTAAGAATGTGGAAAAAACATTATTTACCATTCAAGCATTCAAAGACACATGGTAGT  
GCACAGTGGGGATGGACCTTATAAATGTAAGTTTTGTGGGAAAGCATTCCATTGTCTCAGTTTATATCTTATCCA  
TGAAAGAACTCACACTGGAGAGAAACCGTATGAATGTAAACAATGTGGTAAATCTTTTAGTTATTCTGCTACCCA  
TCGAATACATGAAAGAACTCACATTGGAGAAAAGCCTTATGAATGTCAGGAATGTGGGAAAGCATTCCATAGTCC  
CAGATCCTGTACAGACATGAAAGGAGTCACATGGGAGAGAAGGCTTATCAATGTAAGGAATGTGGAAAAGCATT  
CATGTGTCCCCGTATGTTTCGTAGACATGAAAGGACCCACTCTAGGAAAAAAGCTTTATGAATGTAAGCAGTGTGG  
GAAAGCATTATCCTCTCTTACAAGTTTTCAAACACACATAAGAATGCACTCTGGAGAAAGACCTTATGAATGTAA  
GACATGTGGGAAAGGCTTTTATTCTGCCAAGTCATTTCAAAGACATGAAAAAAGCTCACAGTGGAGAGAAACCGTA  
TAAATGCAAGCAATGTGGTAAAGCCTTCACTCGTTCCGGTTCCCTTTCGATATCATGAAAGGACTCACACTGGAGA  
GAAACCCTATGAGTGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCCCAAATCTTCAATTGCATGGTAGGACTCA  
CACTGGAGAGAAACCGTATCAATGTAAGGAATGTGGGAAAGCTTTCAGATCTGCCTCACAAGCTTCGAATCCATCG  
TAGGATTCACACTGGAGAGAAACCTATGAATGTAAGAAATGTGGGAAAGCCTTCAGATATGTCCAGAACTTTTCG  
ATTTTCATGAAAGGACACAAACACATAAGAATGCACTCTGGAGAAAGACCTTATAAATATAAGATATATGGGAAAC  
ACTTTTATTCTGCCAAGTTATTTCAAACACATGAAAAAATTCACACTGGAGAGAAACCTATAAATGCAAGCAAT  
GTGGTAAAGCCTTAATTGTTCCAGTTCCTTTTCGATATCTAAAAGGACTCACAGTGGAGAAAAAGCTCTATGAGTGT  
AAGCAATGTGGGAAAGTCTTCAGATCTGTCAAGAACCTTTCAATTTATGAAAGGACACACACTGGAGAGAAACCC  
TATGAATGTAAGAAATGTGGAAAAGCGTTCCATAATTTCTCTTCTTTTCAAATACATGAAAGTTGCACAGAGGAG  
AGGCGCCCTAAGAATGTAAGCATTGTGGGAAAGCATTATCTGCCAAGATCGTTTGAATACATGCAAAACACA  
CACTGGAGAGAAACCTATGAATGTAAGGAATGCAACAAGCATTCAATTATTTTCTTCTTCTTGCATATACATGAA  
AGGACTCATACGAGAGAGAATCCGTATGAATGTAAGGATTGTGGGAAAGCATTTCAGCTTGCTTAATTGCTTTTCAT  
AGACATGTAAAGACACACCAGAAGGAAACCTATGAATGTAAGCAATGTGGCAAAAAGCTTTCAGTTCTTCCAGTT  
CTTTTCAATATCATGAAAGGACTCACACTGGGGAGAAACCGTATCAATGTAAGCAATGTGGGAAAGCCGTCAGAT  
CAGCCTCAAGACTTCAAATGCATGGAAGCACTCACACTTGGCAGAAAGCTCTATGAATGTAAGCAGTATGGGAAAG  
CCTTCAGATCGGCTAGGATTCTTTGAATACAAATAATGAATGTAAACAATTAAGTGTATAATAAGTGTATACT  
AACAAATGTTATTCTTTTTAAATAATTAAGAAGCTATAATAAATATCCATTGGTGTATGATT

421/5332  
**FIGURE 375**

CGGAAATGGAGGGGGTCGCTTTCCTCACCTTCCTCGCTGCGCGGGCGGCGGTTGGTAACCGGTCAGACCAGCCCCG  
AGAGGGACCTGGTGCCTGTACCCAGGCTTCTGTGCTCTGTGCGCTGCGCTATGCCCTGCTGTAGTCACAGGAGC  
TG TAGAGAGGACCCCCGTACATCTGAAAGCCGGGAAATGGACCCAGTGGCCTTTGAGGATGTGGCTGTGAACTTC  
ACCCAGGAAGAGTGGACATTGCTGGATATTTCCAGAGAAGATCTCTTCAGGGAAGTGATGCTGGAACTTTTCAGG  
AACCTGACCTCTATAGGAAAAAATGGAGTGACCAGAACATTGAATATGAGTACCAAACCCAGAGAAGAGCTTC  
AGGAGTCTCATAGAAGAGAAAGTCAATGAAATTAAAGAAGACAGTCATTGTGGAGAACTTTTACCCAGGTTCCA  
GATGACAGACTGAACTTCCAGGAGAAGAAAGCTTCTCTGAAAGTAAATCATGTGACAGCTTTGTGTGTGCAGAA  
GTTGGCATAGGTAACCTCATCTTTTAATATGAGCATCAGAGGTGACACTGGACACAAGGCATATGAGTATCAGGAA  
TATGGACCAAAGCCATATAAGTGTCAACAACCTAAAAATAAGAAAGCCTTCAGGTATCGCCCATCCATTAGAACA  
CAAGAAAGGGATCACACTGGAGAGAAACCCTATGCTTGTAAAGTCTGTGGAAAAACCTTTATTTTCCATTCAAGC  
ATTGGAAGACACATGGTAATGCACAGTGGGGATGGAACCTATAAATGTAAATTTTGTGGGAAAGCCTTCCATTCT  
TTCAGTTTATATCTTATCCATGAAAGAACTCACACTGGAGAGAAACCATATGAATGTAAACAATGTGGTAAATCC  
TTTACTTATTCTGCTACCCCTTCAATACATGAAAGAACTCACACTGGGGAGAAAGCCCTATGAATGTAGCAAATGT  
GATAAAGCATTTTCATAGTTCTAGTTCCTATCATAGACATGAAAGAAGTCACATGGGAGAGAAGCCTTATCAATGC  
AAAGAATGTGGAAAAGCATTTCATATACCAGTTCTCTTCGTAGACATGAAAGGACCCACTCTGGGAAAAAACCG  
TATGAATGTAAGCAATATGGGGAAAGGCTTATCCTATCTTATAAGTTTTTCAAACACACATAAGAATGAACTCTGGA  
GAAAGACCTTATAAATGTAAGATATGTGGGAAAGGCTTTTATTCTGCCAAGTCATTTCAAACACATGAAAAAACT  
CACACTGGAGAGAAACGCTATAAATGCAAGCAATGTGGTAAAGCCTTCAATCTTCCAGTTCCTTTTCGATATCAT  
GAAAGGATTACACTGGAGAGAAACCCTATGAGTGTAAAGCAGTGTGGGAAAGCCTTCAGATCTGCCTCACAGCTT  
CGAGTGCACGGTGGGACTCACACTGGAGAGAAACCCTATGAATGTAAGGAATGTGGGAAAGCCTTCAGATCTACC  
TCACACCTTCGAGTGCATGGTAGGACTCATACTGGAGAGAAACCCTATGAATGTAAGGAATGTGGGAAAGCCTTC  
AGATATGTGAAGCACCTTCAAATTCATGAAAGGACAGAAAAACACATAAGAATGCCCTCTGGAGAAAGACCTTAT  
AAAIGTAGTATATGTGAGAAAGGCTTTTATTCTGCCAAGTCATTTCAAACACATGAAAAAACTCACACTGGAGAG  
AAACCCTATGAATGCAACCAATGTGGTAAAGCCTTCAGATGTTGCAATTCCCTTCGATATCATGAAAGGACTCAC  
ACTGGAGAGAAACCCTATGAGTGTAAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCACACCTTCGAATGCATGAA  
AGGACTCACACTGGAGAGAAACCCTATGAGTGTAAAGCAATGTGGGAAAGCCTTCAGTTGTGCCTCAAACCTTCGA  
AAGCATGGTAGGACTCACACTGGAGAGAAACCCTATGAGTGTAAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCA  
AACCTTCAGATGCATGAAAGGACTCACACTGGAGAGAAACCCTATGAATGTAAGGAATGCGAAAAAGCATTCTGT  
AAATTCTCTCTTTTCAAATACATGAAAGGAAGCACAGAGGAGAGAAGCCCTATGAATGTAAGCATTGTGGGAAT  
GGATTCACATCTGCCAAGATTCTTCAAATACATGCAAGAACACACATTGGAGAGAAACACTATGAATGTAAGGAA  
TGCGGAAAAGCATTCAATTATTTTCTTCTTGCATATACACGCAAGGACTCATATGGGAGAGAAAGCCATATGAA  
TGTAAGGATTGTGGGAAAGCATTACAGCTAGCCTGGTTCTTTTATGGACATGAATAGACTCACACTGGAAGGAAG  
CACTATGAATGCAAGCAATGTGGCAAACTTTCACATTTTCCAGTTCTTTTCGATATCATGAAAGGACTCACACT  
GGGGAGAAACCCTATCAATGTAAGCAGTGTGGGAAAGCCTTCATTCTTTTACTTCTTTTCAATGTCATGAAAGG  
ACTCACACGGGAGAGAAACCCTATGAGTGTATTCTAGTTCGTTTGATATCATGAAAGGACTTACACTGGAGTGA  
AACCCTATGAATGTAAGCAATGTGGGAAAGCCTTCAGATGTGCCTCGCACCTTCAACGGCATGGAAGGGTTCACA  
CTTGGGAGAACTCTATGAATGTAAGCAGTATGGGAAAGCCTTCAGATCTGCCAAGATTCTTTGAATACAGATAA  
TTAATGTAACAATTATCATAAGTATACTAACATGTTATTCTTTTAAATAAGAAGGTATAATAAAATATCCCAT  
TGTTTTTATGTATT

422/5332  
**FIGURE 376A**

ATGAAGGATGAAGGGGCAGGGACGGCCACGGAGTGAGGAAGACAACAGTGTCCCTTCTAGCAGTTCGGAGCAAG  
TTTGGCCGAAGGCAAATATTCTGAAGTAAAGGATTTCGGTGGCCTTTGAGGATGTGGCTGTGAACCTCACCCAGGAG  
GAGTGGGCTTTGCTGGATCCTTCCCAGAAAAATCTCTACAGGGAAGTGATGCAGGAAACCTTGAGGAACCTGACC  
TCCATAGGACTATTTTTCTGGGTCCGCATTTTAGGAAAAAATGGAACAACCAGTACATTGAAGATGAGCACCAA  
AATCCTAGGAGAAACCTAAGAAGACTTATAGGGGAGAGACTCTCTGAAAGTAAAGAAAGTCATCAGCATGGAGAA  
GTTTGTACACAGGTTCCAGATGACACACTGAAGAAGAAAACCTCTGGAGTACAATCATATGAAAGCAGTGTGTGT  
GGAGAAATCGGCATAGGTCTTTCATCCCTTAATAGGCACCTCAGAGCCTTTAGTTATTCCAGTAGCCTTGCAATA  
CATGGAAGAACTCACACTGGGGAAAAAGCCTTATGAATGTAAGGAATGTGGGAAAGCATTTCAGGTTTCCCAGTTCT  
GTTTCGTAGACATGAAAGAATCCACTCTGCAAAAAAACCTTATGAATGTAAGCAGTGTGGGAAAGCATTTCAGTTTT  
CCCAGTTCTGTTTCGTAGACATGAAAGAATCCACTCTGCAAAAAAACCTTATGAATGTAAGCAGTGTGGGAAAGCA  
TTATCTTATCTTGTAAGCTTTTCAGACACACATGAGAATGCACACTGGAGAGAGACCTCATAAATGTAACATATGT  
GGGAAAGCCTTTTTTTCTCCCAGTTCGTTAAAAAGACACGAGAAAAGTCACACTGGAGAGAAAACGCTATAAATGC  
AAGCAATGTGATAAAGCCTTCAATTGTCCAGTTCCTTTCAATATCATGAAAGGACTCACAGTGGAGAGAAAACCC  
TATGAGTGTACACAATGTAGGAAAGCCTTCAGATCTGTCAAGTACCTGCGAGTACATGAAAGAAAACACACTGGA  
GAGAAACCTTATGAGTGAAGCTATGTGGTAAGGGATTTATTTCTTCCACTTCCTTTGCTATCATGAAAGACT  
CACACTGGAGAGAAAACCTTATGAATGTAAAAATGTGTGAAAGCCTTCAGTTTTGTCAAGGATCTTCGAATACAT  
GAAAGGACACACACTGGAGAGAAAACCTTTGAATGTAAACAATGTGGGAAAACCTTCACTTCTTCCAATTCCTTT  
CACTATCATGAAAGGACTCACACTGGAGAGAAAACCTTATGAGTGAAGCAATGTGGGAAAGCCTTCAGATCTGCC  
TCAGTCTTCAAAGACATACGAACTCACACAGGAGAGAAAACCTTATGGATGTAAGCAATGTGGTAAAGTCTTT  
AGAGTTGCCTCACAACCTTAAATGCATGAAAGGACTCACACAGGAGAGAAAACCTTATGAGTGAAGCAATGTGGA  
AAAGCCTTCATTTCTTCTAATTCTATTCGCTATCATAAAGGACTCACACTGGAGAGAAAACCTTATAAATGTAAA  
CAGTGTGGGAAAGCCTTCATTTCTTCCAACCTCTTTTCTCTACCATGAAAGGATTCATACTGGAGAGAAAACCTTAT  
GAGTGAAGCAATGTGGTAAAGCCTTTAGATCTGCCTCAATCCTTCAAAGCATAGTATAGGCTTCCCAGTGATG  
TTAGTCTTATCCATCCTCCTCTATACATGTGAGATGTTTCAGGATTCAGTGGCCTTTGAGGATGTGGCTGTGACC  
TTCACCCAAGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAAAATCTCTGTAGAGATGTGATGCAAGAAACCTTC  
AGGAACCTGGCCTCTATAGGGAAAAAATGGAAACCCAGAACATATATGTAGAGTACGAAAAATCTAAGGAGAAAC  
CTAAGAATTGTGGGAGAGAGACTCTTTGAAAGTAAAGAAGGTATCAGCATGGAGAAAATTTGACCCAGGTTCCA  
GATGACATGCTGAAGAAAACACTACTGGAGTAAATCATGCGAAAGCAGTGTGTATGGAGAAGTAGGCAGTGCT  
CATTTCATCTCTTAATAGGCACATCAGAGATGACACTGGACACAAGGCATATGAGTATCAAGAATATGGACAGAAA  
CCATATAAATGTAAATACTGTAAAAAACCTTTCAACTGTCTCTCCTCTGTTTCAGACACATGAAAGGGCTCATAGT  
GGAAGGAAACTCTATGTTTGTGAGGAATGCGGAAAAACATTTATTTCCCATTCAAACCTTCAAAGACACAGGATA  
ATGCACCGTGGAGATGGACCTTATAAGTGTAAATTTGTGGGAAAGCCTTGATGTTTCTCAGTTTGTATCTTATC  
CACAAACGAACCTCACACTGGAGAGAAAACCATATCAATGTAAACAGTGTGGTAAAGCCTTTAGTCATTCTAGTAGC  
CTTCGAATACATGAAAGAACTCACACTGGGGAGAAGCCTTATAAATGTAATGAATGTGGGAAAGCATTCCATAGT  
TCCACATGCCTTCATGCTCATAAAGAACTCACACTGGGGAGAAGCCATATGAATGTAAACAGTGTGGGAAAGCC  
TTCAGCTCTTCCCATTCTTTCAAATACATGAAAGAACTCACACGGGGGAGAAGCCATATGAATGTAAAGGAATGT  
GGAAAAGCATTCAAGTGTCCAGTTCCTGTTTCGACAGATGAAAGAACCCTCTAGGAAAAAACCTTATGAATGT  
AAACATTGTGGGAAAGTATTATCTTATCTTACCAGCTTTCAAACCACTTGGAATGCACACTGGAGAGATATCT  
CATAAATGTAAAGATATGTGGGAAAGCCTTTTATTCTCCAGTTCACTTCAAACACATGAAAAAACTCACACTGGA  
GAGAAACCTTATAAATGCAACCAATGTGGTAAAGCCTTTAATTCTTCCAGTTCCTTCCGATATCATGAAAGAACT  
CACACTGGAGAGAAAACCTTACGAGTGTAAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCACTCCTTCAAACACAT  
GGTAGGACTCACACGGGAGAGAAAACCTTATGCATGTAAGGAATGTGGAAAACCATTTAGTAATTTCTCTTTCTTT  
CAAATACATGAAAGGATGCACAGAGAAGAGAAGCCGTATGAATGTAAAGGGTATGGGAAAACATTTCAGTTTGCCC  
AGTTTATTTCTATAGACATGAAAGGACTCACACTGGAGGAAAAACCTTATGAATGCAAGCAGTGTGGCAGATCCTTC  
AACTGTTTCGAGCTCCTTTTCGATATCATGGAAGGACTCACACTGGAGAGAAAACCTTATGAATGCAAGCAATGTGGA  
AAAGCCTTCAGATCTGCCTCACAGCTTCAAATTCATGGAAGGACTCACACTGGAGAGAAAACCTTATGAATGTAAAG  
CAGTGTGGGAAAGCCTTTGGATCTGCCTCACACCTTCAAATGCATGGAAGGACTCACACTGGAGAGAAAACCTTAT  
GAATGTAAGCAGTGTGGGAAGTCTTTTGGATGTGCCTCGCGACTTCAAATGCATGGAAGGACTCACACTGGAGAG

423/5332  
**FIGURE 376B**

AAACCGTATAAATGTAAGCAATGTGGGAAAGCTTTTGGATGTCCCTCAAACCTTCGAAGGCATGGAAGGACTCAC  
ACTGGAGAGAAAACCTATAAATGTAACCAATGTGCAGCAATGACTTTAAAGGCCAGGGAGAGGTGGGAAAAGGTG  
AGGGCTCCCAGGATGCAATGCCGGAGACATGGTGATGTCCTTAGGTCCAGGACTGCTGGGGGCAATGGCACCTGA



424/5332  
FIGURE 377A

CCATTCAAGCATTCAAAGACACATGATAATGCACAATGGAGATGGAACCTATAAATGTAAGTTTTGTGGGAAAGC  
CTGCCCTTGTCTCAGCATATATCTTATACATGAACGAGTTCACACTGGAGAGAAACCATATAAATGTAAACAATG  
TGGTAAAGCCTTTAGTTATTCAACTTCCCTTCAAATACATGAAAGAACTCACACTGGAGAGAAGCCTTATGAATG  
TAAGGAATGTGGGAAAGCATTCCGTTAGTCCCAATTCCCTTTATGAACATAGAAGAACTCACACTGGAGAGAAGCC  
ATATGAATGCAAACAATGTGGAAAAGCCTTCAGATGGTTCCATTCCCTTCAAATACATGAAAGAACTCACAGTGA  
GGAGAAGGCTTATGAATGTACCAAATGTGGGAAAGCATTCAAGTGTCCAGTTATCTTTGTAGACATGAAGTGAC  
CCACTCTGGGAAAAAGCCTGTGAATGTAAACAATGTGGGAAAGCATTATCTTATCTTAACTTTCAAAGACACAT  
GAAAATGCACACTAGAATGAGACCTTATAAATGTAAGACTGTGGAAAAGCCTTTGATTCTCCAGTTTCGTTTTGA  
AGACATGAAAGAACTCACACTGGAGAGAAACCTTATGAATGCAAGCACTGTGGTAAAGCCTTCAATCGTTCCAGT  
TCCTTTCACTATCATGAAAGGACTCACACTGGAGAGAAACCTTATGAATGTAAGCACTGTAGTAAAGCCTTCATT  
TCTTCCACTTCCTTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCGTATGAGTGTAAAGCAATGTGGGAAA  
GCCTTCAGATCTGCCTCACACCTTCAAATGCATGGAAGGACTCACACTCAAGAGAAACCTTATGAATGTAAGCAG  
TGTGGTAAAGCCTTCATTTTTTCCACTTCCTTTCGATATCATGAAAGGACTCACACTGGAGAGAAACCTTATGAG  
TGTAAGCAATGTGGGAAAGCCTTCACATCTGCCTCACACCTTCAAATGCATGAAAGGACTCACACTGGAAAGCAA  
CTGTATGAATCTAAACAATGTGAAAAACCTTTGGATCTGTCAGAAACCTTCAAATTCATGAAAAGACACACCCT  
GGAGAGAAACCTTATAAGGAATATGGAAGCATTCAACAATTTCTCTTCCCTTCAAATACATGCAACAATGCAC  
AGAGGACAGAATGCCTATGAATGTAAAGAGTGTGACAAAGCATTTCATATCTGCCAAGATCCTTCGAGTACATGCA  
AGAACACACCCTGGAGAGAAACCTTATGAATGTAAGGAATGCGGAAAAGCGTTCAATTATTTTTCTTCTTTGCGT  
ATACACAAAAGGATGCACACTGGAGAGAAACCATATTAATGTAAGGATTGTGGGAAAGCATTTCAGTTTGCCTGGT  
TCCTTTTCGTAGACATAAAAGGGCTCACACTGGAGTGAACCGTATGAATGCAAGGAATGTGGCAAAGCCTTCACT  
TCTTCTGGTTCCCTTTCAGTGTCTATAAAAGGATTACACTGGAGAGAAACCTTATGAGTGTAAAGCAGTGTGGTAAA  
GCCTTCATTTCTTCCACTGCCATTTCGTAGACATGAAAGGACTCACACTGGAGAGAAACCTTATGAGTGTAAAGCAA  
TGTGGAAAAGCCTTTATTTCTTTCAGTTCATTTCAGTACCATGAAAGGACTCACACTGGAGAGAAACAGTATGAG  
TGTAAGCAGTGTGGTAAAGCCTTCATGTCTTCTACTGCATTTTCAGTATCATGAAAAGACCCACACCAGAGAGAAA  
CACTATGAATGTAAGCAGTGTGGGAAAGCCTTCATTTCTTCCGGTAGCCTTCGATATCATGAAAGGACTCACACT  
GGAGAGAAACCTTATGAATGTAAGCAGTGTGGTAAAGCCTTCAGATCTGCCACTCAACTTCAGATGCATAGAAAG  
ATTCACACTGGCGAGAAACCTTATGAATGTAAGCAATGTGGGAAAGCCTACAGATCTGTCTCACAACCTTCTGGTG  
CATGAAAGGACTCACACTGTAGAGCAACCTTATGAATATAAGCAATATGGGAAAGCCTTCAGATTTGCTAAGAAC  
CTTCAAATACAGACAATGAATGTAAACAATTAATGTTTATAGCAGCTGCATACTAACATGTTATTCTGTATTTT  
TTTTTTCTTTTTGAGACAGAGTCTCGCTCTGTCCACCCAGGCTGGAGTGCAGTGGCGTGATCTCAGCTCACTGCAA  
GCTCCACCTCCTGGGTTACGCCATTCTCCTGCCTCAGTCTCCTGAGTAGCTGGGACTACAGGTGCCTGCCACCA  
CACCCGGCTGATTTTTTTGTATTTTTTAGTAGAGACGGAGTTTCATCGTGTAGCCAGGATGGTCTCAATCTCCTG  
ACCTCGTGATCTGCCCGCTCAGTCTCCCAAAGTGCTGGGATTACAGGTATGAGCCACCGTGCCCGCGCTTATT  
CTCTATTTTTTTGTTGTTGTTTGTAGATGAGTCTTGTTCTGTTGCCAGGCTGGAGTGCAGTGGCATGATCTCGCCT  
CCGGGTTCAAGCAATTCTCCTGCCTCAGGCTCCTGAGGAAAAAGATTCCTAGGATTACAGGTGTGCACCACCACA  
CTTGGCTAATTTTTATATTTTTAGTAGAGATGAGGTCTCACCCTATTGGCCACACTGGTCTTGAACCTCTGACCT  
GAAGTGATCCACCTGCCTTAGCCTCCCAAAGTGCTGGGATGACAGGCATGAGCCACTGCACCCAGCTGTTATTCT  
CTATTTAATTAATTGAGAAGCCATAATAAAATATCTCAGTGCCATCATGCATTAGATCAAGTTTATGTTACCACA  
TTATTTTTTGGACATTGTGAGTCAATATTACCAAGTGGACAAAATCCCAGGCATCTTTTTCTCATGTAAATTTT  
AATTTTCATGCTTATATACTTAGAACATTTATCTTGGTCCTAATTTTTTGTTCATTATAATACCAAAAGTTATC  
TCATGTTCTTCAGAGTGACTTTGTGCCATATCCACAGTGGCATACTGTCTTCAAAGAGGGTATAATTCACAAA  
AGGACTTACACTAGAGGAAAACCTTATGAATGTAAGCTGCGTGGGAAAGCATTCTTGATCTGAGTGGCATTGAA  
ACCCACATGGTATTGCACATGACAGATAGGCCTCTCTCCCCGTTCAATTTCTTTTTTTTTGAGACGGAGTCTTGCT  
CTGTCTGCTGAGGCTGAGAACAGTGGTTCCATCTCTGTTCACTGCCACCTCCACCTCCTGGGTTCAAGTGATTCTC  
CTGCCCCAGCCTCCCAAGTAGCTGGGATTACAGGTGACCGCCACCACGCCCAGCTAATTTTTGTATTTTTAGTAG  
AGACGGGGCTTCACTATGTTGGCCAGGTTCTGTTCTGAACTCCTGACCTCAGGTGATCCACCTGCCTCAGCCTCCC  
AAAGTGCTGTGCATACAGGCATGAGCCACTGCACCCGGCCTTCTCCCCATTCAATTTCAAAGACATAAAAGGATG  
CACAATAAAGAGAGACCTCTGAATGCAAGCAATATGGAAGCATTCCATTGTATCAGATCCTTTGTAGCCAT

425/5332  
**FIGURE 377B**

GAAAGAACTCGCTGAAGAGAAACCCTGTAAATGAAGGGAATGTGAAAAGCCTTCATTCTGAAATGAAGCAATTC  
ATACTATTAATATATGAGAGAAATCCTATTATAAGAAATTGATTGCTGTGCACGGTAGCTTACCTGTAATTCCAG  
CACTTCCAGAGGCTAAGGCAGGTGGATCACTTGAGGTCAGGAGTTCAATACCAGCCTGGGCAACATAGTGAAAACC  
CTGTCTCTACCAAAAATACAAAAATTAGCCAGGCATGGTGGCGCGTGCCTGTAGTCCCAGCTACTCAGGAGGCTG  
AGGCAGGAGAATCACTTGAACCCAGGAGCTGGATGTTGCAGTGACCCGAGATTACGCCACTGTACCCAGCAGAG  
TGAGACTCCATCTGAAAAAAAAAAGCAAGGGGCCGGCACGGTGGTTACGCCTGTAATCCCAGCACTTTGGGAGAC  
CAAGGCAGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAACCCCATCGCTACTAA  
AAATACAAAAAATTAGATGGGCATGGTGGCACATGCCTGTAATCCCAGCTACATGGGAGACTGAGGCAGGAGAAT  
TGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACAGCATTGCACITTCAGCCTGGGCAACAAGAGTG  
AAACTCCATCTCAAAAAAAAAAAAAAAAAAAATTGAGGAAGCATTCAAGTTGTCCCACTTCCTTTCAAACAGGAAG  
AGACACTAGAGAGAAAACCCTCTGAGATAACTGACTGTTGAATTAAGAAGAGAGGCCTGGCCGGACACAGTGGCTC  
ACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGATCACGAGGTCAGGAGATCAAGACCATCCTGGCT  
GACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAACTAGCTGGGCGTGGTGGTGGGCGCCTGTAGTCCC  
AGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAATCCAGGAGGCAGAGCTTGCAGTGAACCGAGATCGCGCC  
ACTGCACTCCAGCGGCGACAGAGCAAGACTCCGTCTC

426/5332  
**FIGURE 378**

ATGCACACTGGAGAGAAGCCATATGAATGTAAGAATTGTGGGAAAGCCTTCACATCTGCCAAGAGCCTTCAAAAT  
CATGGAAGGACACACACCGGAGAGAAACCATGTGAATGCAAGCAATGTGGCAAAGCTTTCATTTGTTCCAGTTCC  
TGTACCACTGCAAATTTGCAGAGGGTAACAGAGGCTGAGGCCAGTATGGAGGCTGCAGAGGGAGGGAAATGGAGC  
TCCCATGGGTGCTTCCTGGGCGGCCCAACCTATTCTGCATGTGGCCTCCAGCTGTTTCAGAGCAGCTCCAGGAGTG  
TGGATTCTGATAAGCCGCAGAGCCCTGGAAAGCAAGAGACTATGTGCAGATGTCCTTGGCAGGGCGCTGTCCCTT  
CTGTGGTTGGACCTCTGGAGCCTGGGGCCATATTCGGGAACAGTGTGTTTGGTTCTTGA

427/5332  
**FIGURE 379**

CTACTCCGAGAGGCCCCGGGTCCCTCTGCCACAACCTTCTGTGCTCTGCCGCCTGCACCGTGACCCGCACTATT  
ACGGGAGCCCTAGAGAGGACACCGGGACACCCAGAAGCCGGGAAATGATGTTTCAGGATTCAGTGGCCTTTGAGG  
ATGTGGCTGTCAGCTTCACCCAGGAGGAGTGGGCTTTGCTGGATCCTTCCCAGAAGAATCTCTACAGGGATGTGA  
TGCAGGAAACCTTCAAGAACCTGACCTCTGTAGGAAAAACATGGAAAGTTCAGAACATTGAAGATGAGTACAAAA  
ATCCCAGGAGAAATCTAAGTCTTATGAGAGAGAACTCTGTGAAAGTAAAGAAAGTCATCACTGTGGAGAAAGCT  
TCAACCAGATTGCAGATGACATGCTGAACAGGAAAACCTCTTCTGGAATAACACCATGTGAAAGCAGTGTGTGTG  
GAGAAGTTGGCACGGGTCAATTCATCTCTTAATACGCATATCAGAGCTGACACTGGACACAAGTCATCTGAGTATC  
AGGAATATGGAGAGAATCCATATAGAAATAAGGAATGTAAGAAAGCCTTCAGTTATCTTGACTCCTTTCAATCAC  
ATGATAAAGCTTGCCTAAAGAGAAACCCCTATGATGGTAAAGAATGTACAGAAACCTTCATTTCCCATTCATGCA  
TTCAAAGACACAGGGTAATGCACAGTGGAGATGGACCTTATAAATGTAAAGTTTTGTGGGAAAGCCTTCTATTTTC  
TCAATTTATGTCTTATCCATGAACGAATTCACACTGGTGTGAAACCATATAAGTGTAAACAATGTGGTAAGGCCT  
TTACTCGTTCCTACTACCTTCCAGTACATGAAAGAACTCACACAGGAGTGAATGCCGATGAATGTAAAGAATGTG  
GGAATGCATTAGTTCCTAGTGAATTCGTAGACATAAAAGGTCTCACACTGGAGAAAAACCCCTATGAGTGTA  
AGCAATGTGGGAAAGTCTTCATTTCTTTCAGTTCATTGAGTATCATAAGATGACTCACACTGGAGAGAAACCCCT  
ATGAATGTAAGCAGTGTGGGAAAGCCTTTAGATGTGGCTCACACCTTCAAAGCATGGAAGGACTCACACTGGAG  
AGAAACCCCTATGAATGTAGGCAATGTGGTAAAGCCTTCAGATGTACCTCGGACCTTCAAAGGCATGAAAAGACAC  
ACACTGAGGATAAACCCCTATGGATGTAAGCAGTGTGGGAAAGGCTTTAGATGTGCTTCACAACTTCAAATTCATG  
AAAGGACGCACAGTGGAGAGAAACCCCATGAATGTAAGGAATGTGGAAAAGTATTCAAGTATTTTTCTTCTTGC  
GTATACATGAAAGGACGCACACTGGAGAGAAGCCCCATGAATGTAAGCAATGTGGAAAAGCATTGAGGTATTTCT  
CTTCTTGCATATACATGAAAGGACACACACTGGAGATAAGCCATATGAGTGTAAGGTATGTGGCAAAGCCTTCA  
CTTGTTCCAGTTCATTGATATCATGAAAGGACTCACACTGGAGAGAAACCCCTATGAATGTAAGCACTGTGGTA  
AGGCCTTTATTTTCCAATTACATTCGATATCATGAAAGGACTCACACTGGAGAGAAACCCCTATCAATGCAAGCAAT  
GTGGCAAAGCCTTTATTCGTGCCAGTTCATGTGCGAGAACATGAAAGAACTCATACCATTAATAGATGAGAAATCC  
TTTTAGTGGAAGCAACGGGAGAAGCTTTCTGTTGTCCCACTTCTTTGAAACACAAGAAAAGAGAGTGGTGAAAG  
AACCTCTGGATAACTGCTTTTTGAATTGAGAAGAGAGACTTGGCATAGGACAATAAAATCTAGAAGAACTTGGAT  
GGTTTCGTAATACAATTCACCTATAGCCAATCTTGCATGAGATTTCAAAGGCACAGAAAAGGAAGGCATCAGTCA  
CATATTAGAGGCCCCACACAGGGAGAGAGGTGTGTGGCTACCCGCTTCCAGCCCATTTTCTGATTCTTTGGCTT  
GTTAATCGAGAATATCCCCAAATCACTTGTCTCTGTTCTCAGAGTTGTAGGTCTCCAGATATGTCCCCAGTGC  
TCCACATTAAAGATACATGCCCACCTTTGCTGTTTCTTCAGAAATGTTAAAATGTTTACCAGAGAACTAATAAATG  
TTGTTATGGCTGGAAATACTCACTGATGCCCACTCTTCTATAGATTGAGTTGGTTTAAAGAGGTCTACTTTGTAT  
TGCAAGCATTGTTGTTTCTACGGATTAGCGAGCCTGTTCTTGATTAAACCACTAGATGGGAGCTTG

428/5332  
**FIGURE 380**

GGCGTCTTGACCAAAGGGAGGTCGGGATCTCGGTTTTCCGGCCCCGAGAGGGACCAGGTGCCTCCGCCATAGCT  
TCTGTGCTCCATCGCCCGCACTGTGACTGGACTGTTAGAGGGATCCGTGGAGAGGAGGCCAGGACACCTGGAAG  
CCGGGAAATGGATTCACTGGTCTTTGAGGATGTAGATGTGAACCTTCACCCAGGAGGAGTGGGCTTTGCTGGATCC  
TTCCAGAAAGATCTCTACAGAGATGTGATGCAGGAAACCTTCAGGAACCTGGCTTCTGAAAAAATGGAAAGAT  
CAGAAAATTGAAGATGAGTACAAAAATCCCAGGAGAAACCTAAGAGGTCTTATCGGAGAGAGACTCTTAGAAAGT  
AAGAAAGATCATCAGCATGGAGAAATTTTGACCCAGGTTCCAGATGACATGCTGAAGAAGAAAACCTCCCCGAGTA  
AAATCATGTGGAGAAGTCAGCGTGGGTCATGCATCCCTTAATAGGCACCACAGAGCTGACACTGGACACAAGCCA  
TATGAGTATCAGGAATATGGACAGAAGCCATATAAATGTACATACTGTAAGAAAGCCTTCAGTGATCTCCCTTAC  
TTTCGAACACATGAATGGGCTCACACTGGGGGGAAACCTTATGATTGTGAGGAATGTGGAAAAAGCTTTATTTCC  
CGTTCAAGCATTTCGAAGACACAGGATAATGCACAGTGGAGATGGACCTTACAAATGTAACTTTTGTGGGAAAGCC  
TTGATGTGTCTCAGTTTGTATCTTATCCACAAACGAACTCACACTGGAGAGAAACCATATGAATGTAAACAGTGT  
GGTAAAGCCTTTAGTCATTCTGGTAGCCTTCGAATACATGAAAGAAGCTCACACTGGAGAGAAGCCTTATGAATGC  
AGTGAGTGTGGGAAAGCATTCCATAGTTCCACATGCCTCCATGCACATAAAATAACTCACACTGGGAGAAAGCCG  
TATGAATGTAAACAGTGTGGGAAAGCCTTTGTTTCTTTCAATTCCGTTTCGATATCATGAAAGAAGCTCACACTGGA  
GAGAAGCCCTATGAATGTAAGCAATGTGGGAAAGCCTTCAGATCTGCCTCGCACCTTCGAACACATGGAAGGACT  
CACACTGGAGAGAAACCTATGAATGTAAACAATGTGGTAAAGCCTTTGGATGTGCCTCGAGCGTTAAAATCCAT  
GAAAGGACTCACACTGGAGAAAAACCTGTAGCTCCAACACTTCGAAAGGCCAAGGCGAGAAGATTGCTTAAATTC  
ACATAAGATTCTAGAACCCACCGAATCCAATCATGGTAAAAATGTGTTTCCCTCAAATCATGGGAACCATCGCA  
AAATTATTCTGAAGCTTCTGCAGTCACTGTCAATTTGACAGCATTAGAAATAAATGCCAGTAGCCAGGAGCAAA  
AATTTTTGGGAGTAGTTTAGCTGGGGCCTCACTCAGATACCTAGGACACAGAGTTGGAAATAACTCTTAAGAGAG  
ACACACCTCCAGTAAGACCTTAAGACAGTTCTGTCTATAAAAAAATACGAGGTTTGCCGGGGTGCAGTGGCTCAT  
GCCTATAATCCAGCACTTTGGGAGGCCGAGGCAGGCGGACCACGAGGTCAGTAGTTCGAGACCAGCCTGGTCAA  
TATGGTGAACCCCATCTCTACTAAAAAATACAAAAA

430/5332  
**FIGURE 382**

CATGAAGGAACTCACACTCTAGAGAAACCCCTATGAATGTAAGCAATGTGGGAAATTGTTATCTCATCGCTCAAGC  
TTTCGAAGACACATGATGGCACACACTGGAGATGGCCCTCATAAATGCACAGTATGTGGGAAAGCCTTTGATTCT  
CCTAGTGTATTTCAAAGACATGAAAGGACTCACACTGGAGAGAAACCCCTATGAATGCAAGCAATGTGGGAAAGCC  
TTCCGTACTTCCAGTTCCCTTCGAAAACATGAAACAACACACACTGGAGAGCAACCCTATAAATGTAAATGTGGA  
AAAGCTTTTAGTGATTTATTTTCCTTTCAAAGTCATGAAACAACACACAGTGAAGAGGAGCCTTATGAATGTAAG  
GAGTGTGGGAAAGCATTTAGTTCTTTTAAATACTTTTGTGCGCCATGAAAGGACTCACAGTGAAGAAAAATCTTAT  
GAGTGTCAAATTTGTGGCAAAGCCTTCAGTCGTTTCAGTTACTTAAAACTCATGAAAGGACTCACACGGCAGAG  
AAGCCATATGAATGTAAGCAATGCAGGAAAGCATTCTTTTGGCCCTCTTTCCTTCTAAGACATGAAAGGACTCAC  
ACTGGAGAAAGACCCTATGAATGTAAACACTGTGGTAAAGCCTTCAGTCGTTCCAGTTTCTGTGCGAGAACATGAA  
AGAACTCACACTGGAGAGAAGCCCTATGAATGTAAGGAATGTGGGAAAGCCTTCAGTTCTCTCAGTTCCCTTTAAT  
AGACATAAAAGGACACACTGGAAGGATATTCTATAAGTGTATGGAATGTGGGAAAGCATTTCATTGGTTTTATCAC  
ATTCAGATACTTGAAAGAAATAAATCCTGTGAATGTAAACGTGGTAAAGCCTTAAGAAGTTTCCAGGCTGGGCGC  
AGCGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAGGAGGGCAGATCACGAGGCCAGGAGATCGAGACCA  
GCCTGGCTAACATGGGAAACCCCTGTCTCTACTAAAAATACGG

431/5332  
**FIGURE 383**

GCCAGGTTCAAAGAGCCCGCGGCGTCTTCACGCCCCTGCGCTCAGCTCTAGACTCAGTCGCTCGCTGAGAGACGC  
CCTGGAACGTCTGTGTAGCCTCAGTCGCTGAGAGACGCCCTGGAACGTCTGTGGCAGCCTCTGTACAGTGGGAC  
CCGCACTGGCAGCGGGAGGCAGAGGGAGGACCCTGGAACATCCCGGAAGCCGGGAAATGGACGCGAGTGGCCTTTG  
AGGATGTGGCTGTGAACTTCACCCAGGAGGAATGGGCTTTGCTGGGTCCATCACAGAAGAATTTATACAGATATG  
TGATGCAAGAAACCATCAGGAACCTGGACTGTATAAGAATGATATGGGAAGAACAGAATACTGAAGATCAGTACA  
AAAATCCTAGGAGAAATCTAAGATGTCATATGGTAGAGAGATTAGTGAAAGTAAAGACAGTAGTCAGTGTGGAG  
AAACATTTAGCCTCATTGAGATAGTATTGTGAACAACAGCATTTGTCTGGAGAAGATCCATGTCAAAGCGCTG  
AGTGTGAAGAAGTCATAATGGGTCATTTATCCCTTAATAGCCACATCAGAGTTGATTCTGGACACAAACCACATG  
AGTATCAGGAATATGGAGAGAAGCCACATACATAAAACAGTGGGAAAGCCTTCAGTTACCATCCTCTCTTC  
AGTCGCGTGGAAAGCCTCACACTGGAAAGAAACGCTATGAGTGTAAGGAATGTGGAAAAACCTTCAGTTCTCGTA  
GAAACCTTCGAAGACACATGGTAGTGCAAGGTGGAAATAGACCTTATAAATGTAAGTTGTGTGGGAAAGCTTTTT  
TTTGGCCAGTTTATTACGTATGCATGAAAGAACTCACACTGGAGAGAAACCGTATGAATGTAAGCAGTGTTCTA  
AAGCCTTTCTTTTTTACAGTTCTATCGAAGACATGAGAGAATGCACACTGGGGAGAAACCGTATGAATGTAAGC  
AGTGTCTAAAGCCTTGCTGATTCCAGTTCTATATAAGACATGAAAGAACTCACACTGGAGAGAAACCATATA  
CATGTAAACAGTGTGGGAAAGCCTTCAGTGTTCAGTTCCCTTCGAAGACATGAAACCACTCACAGTGCAGAGA  
AACCCTATGAGTGTAAGCAATGCGGGAAAACATTTTCATCATCTTGAAGCTTTCAGATACACATGAAAGGCACA  
CTGGAGATCGACCTCATAAATGTAAGATATGTGGGAAAGGCTTTGATCGTCCAGTTTAGTTCGATATCATGAAC  
GAATTCACACTGGAGAGAAACCTATGAATGCAAGCAGTGTGGGAAACGTTATCTCATAGCTCAAGCTTTCGAA  
GACACATGATAATGCACACTGGAGGTGGACCTCATAAATGCAAGATATGTGGGAAAGCTTTTGTATCTAGTG  
TATGTCAAAGACACGAAAAGTCTCACAGTGGAGAGAAACCTATGAATGCAAGCAGTGTGGGAAAGCGTTATCTC  
ATAGCTCAAGCTTTTCGAAGACATATGGTAATGCATACGGGAGATGGGCCGAATAAATGCAAGGTATGTGGGAAAG  
CCTTTGTTTTATCCAGTGTATGTCAAAGACATGAAAAGACTCACTGGAGAGAAACAATATGAATGTAAACTATTA  
TAAAGCCTTCTATATTTCCAGTTCCCTTTGATATCATGAATAAATTACACTGGACAGAAACCTATAAATGTAA  
ATGTGGGAAAGCCTTTCATAATTTTTATTCCTTTCAAATCATGAAATATCTCACACTGGAGAGATGCTGTATGA  
TATAAGGAATGTGGGAAAGTGATCGATTTTTTTTTAACACCATTGTCAACATAAAACAACCTCACAGAGCAGAAA  
ACTCTGTGAGTGTAATAATATGTAGGGAAGCCTTCAGTCATTTTGTTAACTTAAAAGTACATGAGGCTGGGCACAG  
TGGCTCACGCCTGTAATCCAGCACTTAGGGTGGGCAAATTGCTTGACCTCAGGAATTTGAGGCCTGCCTGGGCA  
AAATGGTGAAACCATGTCTCTACAAAAAATAGAAAAAGTAGCAGGTGTGGTGGTATGCCCCGTAGTCCCAGCTA  
CTTGGGAGGCTGAGGTGGGAAGATCTCTTGAGCCCCAAGGGTGGGGTTCAGTGAGCCAAGATGCACTGCACCC  
CAGCCTGGGCGACAGAGCCAGACCCTGTCTCAAAAAAAAAAAAAAGTACATGAAAGGATTCACTCTGGAGAGAA  
GTCATATGAATGTAAGAAATGTAGAAAAGCATTGAGTTCTCTCAGGTCCTTGATAGACATAAAAGGACTCACTG  
GAGAGATACTCTATAAATGTGTGAAATGTAGGGAAGTATTCTTTAATGTTATTTTCAATTCAGATAGAAATAATTC  
TCATTGGAGATAAACCTATGAATGTAAACACATAGTAAAGCCTTAATTTTAAGCCTCAGTTTCTTTCAAATACA  
GTTATCCCCTAATATTTGCAGGAGCGTGGTTCTACCACCCCTGGGCATACATAAATCGACACATGCCAAGTCCT  
TTTTTAAAAATGACATATTTGGTACAAAATTACCCGGATGTGATGGCACATGCCTGTAATCCCAGCTACTCAGGA  
GGCTGAGGCAGGATAATCACTTGAATCCGGGAGGCGGAGGTTGCGGTGAGCCAAGATCGCGCCACTGCACTCCAG  
CCTGGGCAGCAAGAGCAAAACAACCTCTGTACACACACAAAAAAAAAAAAA